

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT

<b>APPLICATION FOR PERMIT TO DRILL</b>						1. WELL NAME and NUMBER FD 5-31-2-2						
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT WILDCAT						
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME						
6. NAME OF OPERATOR BILL BARRETT CORP						7. OPERATOR PHONE 303 312-8134						
8. ADDRESS OF OPERATOR 1099 18th Street Ste 2300, Denver, CO, 80202						9. OPERATOR E-MAIL tfallang@billbarrettcorp.com						
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) fee			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>						
13. NAME OF SURFACE OWNER (if box 12 = 'fee') TRACY RICHENS						14. SURFACE OWNER PHONE (if box 12 = 'fee') 435-545-2535						
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') PO BOX 722, FORT DUCHESNE, UT 84026						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')						
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>						
20. LOCATION OF WELL		FOOTAGES		QTR-QTR		SECTION		TOWNSHIP		RANGE		MERIDIAN
LOCATION AT SURFACE		1980 FNL 680 FWL		SWNW		31		2.0 S		2.0 E		U
Top of Uppermost Producing Zone		1980 FNL 680 FWL		SWNW		31		2.0 S		2.0 E		U
At Total Depth		1980 FNL 680 FWL		SWNW		31		2.0 S		2.0 E		U
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 680			23. NUMBER OF ACRES IN DRILLING UNIT 640						
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1100			26. PROPOSED DEPTH MD: 9706 TVD: 9706						
27. ELEVATION - GROUND LEVEL 5016			28. BOND NUMBER LPM4138148			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 49-1645						
<b>Hole, Casing, and Cement Information</b>												
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement			Sacks	Yield	Weight
COND	26	16	0 - 80	65.0	Unknown	8.7	No Used			0	0.0	0.0
SURF	12.25	9.625	0 - 3600	36.0	J-55 ST&C	8.7	Halliburton Light , Type Unknown			550	3.16	11.0
							Halliburton Premium , Type Unknown			210	1.36	14.8
PROD	7.875	5.5	0 - 9706	17.0	P-110 LT&C	9.5	Unknown			550	2.31	11.0
							Unknown			330	1.42	13.5
<b>ATTACHMENTS</b>												
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>												
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER						<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN						
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)						<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER						
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP						
NAME Brady Riley				TITLE Permit Analyst				PHONE 303 312-8115				
SIGNATURE				DATE 10/23/2013				EMAIL briley@billbarrettcorp.com				
API NUMBER ASSIGNED 43047540660000				APPROVAL				 Permit Manager				

**BILL BARRETT CORPORATION**  
**DRILLING PLAN**

**FD 5-31-2-2**

Lot 2, SWNW, 1980' FNL and 680' FWL, Section 31, T2S-R2E, USB&M (surface hole)

Lot 2, SWNW, 1980' FNL and 680' FWL, Section 31, T2S-R2E, USB&M (bottom hole)

Uintah County, Utah

**1 - 2. Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals**

<b><u>Formation</u></b>	<b><u>Depth – MD/TVD</u></b>
Green River	5,392'
Mahogany	6,581'
Lower Green River*	7,680'
Douglas Creek	7,878'
Black Shale	8,450'
Castle Peak	8,550'
Wasatch*	9,206'
TD	9,706'

\*PROSPECTIVE PAY

The Wasatch and the Lower Green River are primary objectives for oil/gas.

Base of Useable Water = 3,682'

**3. BOP and Pressure Containment Data**

<b><u>Depth Intervals</u></b>	<b><u>BOP Equipment</u></b>
0 – 3600'	Rotating Head or Diverter (may pre-set 9-5/8" with smaller rig)
3600' – TD	11" 5000# Ram Type BOP 11" 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.	

\*See Appendix A

**4. Casing Program**

<b><u>Hole Size</u></b>	<b><u>SETTING DEPTH</u></b>		<b><u>Casing Size</u></b>	<b><u>Casing Weight</u></b>	<b><u>Casing Grade</u></b>	<b><u>Thread</u></b>	<b><u>Condition</u></b>
	<b><u>(FROM)</u></b>	<b><u>(TO)</u></b>					
26"	Surface	80'	16"	65#			
12 1/4"	Surface	3600'	9 5/8"	36#	J or K 55	LT&C	New
7 7/8"	Surface	TD	5 1/2"	17#	P-110	LT&C	New

Bill Barrett Corporation  
 Drilling Program  
 FD 5-31-2-2  
 Uintah County, Utah

### 5. Cementing Program

16" Conductor Casing	Grout
9 5/8" Surface Casing (may pre-set with spudder rig)	Lead: 550 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft <sup>3</sup> /sx) circulated to surface with 75% excess. TOC @ Surface Tail: 210 sx Halliburton Premium Plus cement with additives mixed at 14.8 ppg (yield = 1.36 ft <sup>3</sup> /sx), calculated hole volume with 75% excess. TOC @ 3100'
5 1/2" Production Casing	Lead: 550 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft <sup>3</sup> /sx). TOC @ 3100' Tail: 330 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft <sup>3</sup> /sx). Top of cement to be determined by log and sample evaluation; estimated TOC @ 7950'

### 6. Mud Program

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss (API filtrate)</u>	<u>Remarks</u>
0' – 3600'	8.3 – 8.7	26 – 36	NC	Air/Mist/Freshwater Spud Mud Fluid System
3600'-5500'	9.2 - 9.4	26 – 36	NC	Freshwater Spud Mud Fluid System
5500' – TD	9.4 - 9.5	42 – 58	25 cc or less	DAP Polymer Fluid System
Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.				

### 7. Testing, Logging and Core Programs

Cores	None anticipated;
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface). FMI & Sonic Scanner to be run at geologist's discretion.

### 8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 4795 psi\* and maximum anticipated surface pressure equals approximately 2660 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

\*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

\*\*Maximum surface pressure = A – (0.22 x TD)

Bill Barrett Corporation  
Drilling Program  
FD 5-31-2-2  
Uintah County, Utah

**9. Auxiliary Equipment**

- a) Upper Kelly cock; lower Kelly cock will be installed while drilling
  - b) Inside BOP or stab-in valve (available on rig floor)
  - c) Safety valve(s) and subs to fit all string connections in use
- Mud monitoring will be visually observed

**10. Location and Type of Water Supply**

Water for the drilling and completion will be from:

43-2505, (t37379): McKinnon Ranch Properties, LC  
43-12345 (F78949): Dale Anderson  
43-10664 (A38472): W. E. Gene Brown  
49-1645 (A35800): RN Industries, Inc.  
49-2336 (t78808): RN Industries, Inc.  
43-8496 (A53617): A-1 Tank Rental  
43-10288 (A65273): Nile Chapman (RNI)  
49-2247 (F76893): Magnum Water Service  
43-8875 (t38762): Four Star Ranch (c/o David Yeman)

**11. Drilling Schedule**

Location Construction: March 2013  
Spud: March 2013  
Duration: 15 days drilling time  
6 days completion time

**12. Appendix A**

**9-5/8" casing may be preset with a spudder rig. If this occurs, the following equipment shall be in place and operational during air/gas drilling:**

- Properly lubricated and maintained rotating head
- Spark arresters on engines or water cooled exhaust
- Blooie line discharge 100 feet from well bore and securely anchored
- Straight run on blooie line unless otherwise approved
- Deduster equipment
- All cuttings and circulating medium shall be directed into a reserve or blooie pit
- Float valve above bit
- Automatic igniter or continuous pilot light on the blooie line
- Compressors located in the opposite direction from the blooie line on the rig
- Mud circulating equipment, water, and mud materials (does not have to be premixed) sufficient to maintain the capacity of the hole and circulating tanks or pits

**PRESSURE CONTROL EQUIPMENT – Schematic Attached**

**A. Type: Eleven (11) Inch Double Gate Hydraulic BOP with Eleven (11) Inch Annular Preventer.** The blow out preventer will be equipped as follows:

1. One (1) blind ram (above).
2. One (1) pipe ram (below).
3. Drilling spool with two (2) side outlets (choke side 3-inch minimum, kill side 2-inch minimum).
4. 3-inch diameter choke line.
5. Two (2) choke line valves (3-inch minimum).
6. Kill line (2-inch minimum).
7. Two (2) chokes with one (1) remotely controlled from the rig floor.
8. Two (2) kill line valves, and a check valve (2-inch minimum).
9. Upper and lower kelly cock valves with handles available.
10. Safety valve(s) & subs to fit all drill string connections in use.
11. Inside BOP or float sub available.
12. Pressure gauge on choke manifold.
13. Fill-up line above the uppermost preventer.

**B. Pressure Rating:** 5,000 psi

**C. Testing Procedure:**

Annular Preventer

At a minimum, the Annular Preventer will be pressure tested to 50% of the rated working pressure for a period of ten (10) minutes or until provisions of the test are met, whichever is longer.

At a minimum the above pressure test will be performed:

1. When the annular preventer is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition, the Annular Preventer will be functionally operated at least weekly.

Blow-Out Preventer

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by a test plug) or to 70% of the internal yield strength of the surface casing (if the BOP is not isolated from the casing by a test plug). Pressure will be

maintained for a period of at least ten (10) minutes or until the requirements of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

1. When the BOP is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition the pipe and blind rams will be activated each trip, but not more than once each day. All BOP drills and tests will be recorded in the IADC driller's log.

**D. Choke Manifold Equipment:**

All choke lines will be straight lines unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and vibration.

**E. Accumulator:**

The accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if so equipped), close all rams plus the annular preventer, and retain a minimum of 200 psi above precharge on the closing manifold without the use of closing unit pumps. The fluid reservoir capacity will be double the usable fluid volume of the accumulator system capacity and the fluid level of the reservoir will be maintained at the manufacturer's recommendations.

The BOP system will have two (2) independent power sources to close the preventers. Nitrogen bottles (3 minimum) will be one (1) of these independent power sources and will maintain a charge equal to the manufacturer's specifications.

The accumulator precharge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every six (6) months thereafter. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum limits specified in the *Onshore Oil & Gas Order Number 2*.

A manual locking device (i.e. hand wheels) or automatic locking device will be installed on all systems of 2M or greater. A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will be maintained in the open position and will be closed only when the power source for the accumulator is inoperative.

Remote controls shall be readily accessible to the driller. Remote controls for all 3M or greater systems will be capable of closing all preventers. Remote controls for 5M or greater systems will be capable of both opening and closing all preventers. Master controls will be at the accumulator and will be capable of opening and closing all preventers and the choke line valve (if so equipped).

**F. Miscellaneous Information:**

The Blow-Out Preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of *Onshore Oil & Gas Order Number 2*. The hydraulic BOP closing unit will be located at least twenty-five (25) feet from the well head but readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular rig contracted to drill this hole.

A flare line will be installed after the choke manifold, extending 125 feet (minimum) from the center of the drill hole to a separate flare pit.

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# Bill Barrett Corporation

## FORT DUCHESNE CEMENT VOLUMES

**Well Name:** FD 5-31-2-2

### Surface Hole Data:

Total Depth:	3,600'
Top of Cement:	0'
OD of Hole:	12.250"
OD of Casing:	9.625"

### Calculated Data:

Lead Volume:	1699.0	ft <sup>3</sup>
Lead Fill:	3,100'	
Tail Volume:	274.0	ft <sup>3</sup>
Tail Fill:	500'	

### Cement Data:

Lead Yield:	3.16	ft <sup>3</sup> /sk
% Excess:	75%	
Top of Lead:	0'	

### Calculated # of Sacks:

# SK's Lead:	550
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Tail Yield:	1.36	ft <sup>3</sup> /sk
% Excess:	75%	
Top of Tail:	3,100'	

# SK's Tail:	210
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### Production Hole Data:

Total Depth:	9,706'
Top of Cement:	3,100'
Top of Tail:	7,950'
OD of Hole:	7.875"
OD of Casing:	5.500"

### Calculated Data:

Lead Volume:	1260.4	ft <sup>3</sup>
Lead Fill:	4,850'	
Tail Volume:	456.4	ft <sup>3</sup>
Tail Fill:	1,756'	

### Cement Data:

Lead Yield:	2.31	ft <sup>3</sup> /sk
Tail Yield:	1.42	ft <sup>3</sup> /sk
% Excess:	50%	

### Calculated # of Sacks:

# SK's Lead:	550
# SK's Tail:	330

<b>FD 5-31-2-2 Proposed Cementing Program</b>
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<u>Job Recommendation</u>	<u>Surface Casing</u>
<b>Lead Cement - (3100' - 0')</b>	
Halliburton Light Premium	Fluid Weight: 11.0 lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield: 3.16 ft <sup>3</sup> /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid: 19.48 Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid: 0'
2.0% Bentonite	Calculated Fill: 3,100'
	Volume: 302.59 bbl
	<b>Proposed Sacks: 550 sks</b>
<b>Tail Cement - (TD - 3100')</b>	
Premium Cement	Fluid Weight: 14.8 lbm/gal
2.0% Calcium Chloride	Slurry Yield: 1.36 ft <sup>3</sup> /sk
	Total Mixing Fluid: 6.37 Gal/sk
	Top of Fluid: 3,100'
	Calculated Fill: 500'
	Volume: 48.80 bbl
	<b>Proposed Sacks: 210 sks</b>

<u>Job Recommendation</u>	<u>Production Casing</u>
<b>Lead Cement - (7950' - 3100')</b>	
Tuned Light™ System	Fluid Weight: 11.0 lbm/gal
	Slurry Yield: 2.31 ft <sup>3</sup> /sk
	Total Mixing Fluid: 10.65 Gal/sk
	Top of Fluid: 3,100'
	Calculated Fill: 4,850'
	Volume: 224.47 bbl
	<b>Proposed Sacks: 550 sks</b>
<b>Tail Cement - (9706' - 7950')</b>	
Econocem™ System	Fluid Weight: 13.5 lbm/gal
0.125 lbm/sk Poly-E-Flake	Slurry Yield: 1.42 ft <sup>3</sup> /sk
1.0 lbm/sk Granulite TR 1/4	Total Mixing Fluid: 6.61 Gal/sk
	Top of Fluid: 7,950'
	Calculated Fill: 1,756'
	Volume: 81.28 bbl
	<b>Proposed Sacks: 330 sks</b>

T2S, R2E, U.S.B.&M.

**BILL BARRETT CORPORATION**

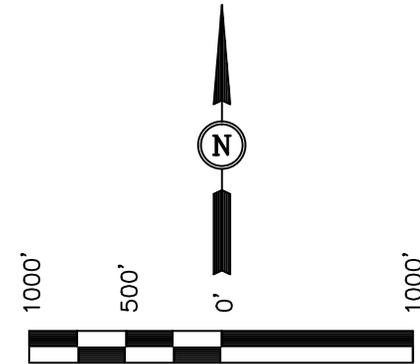
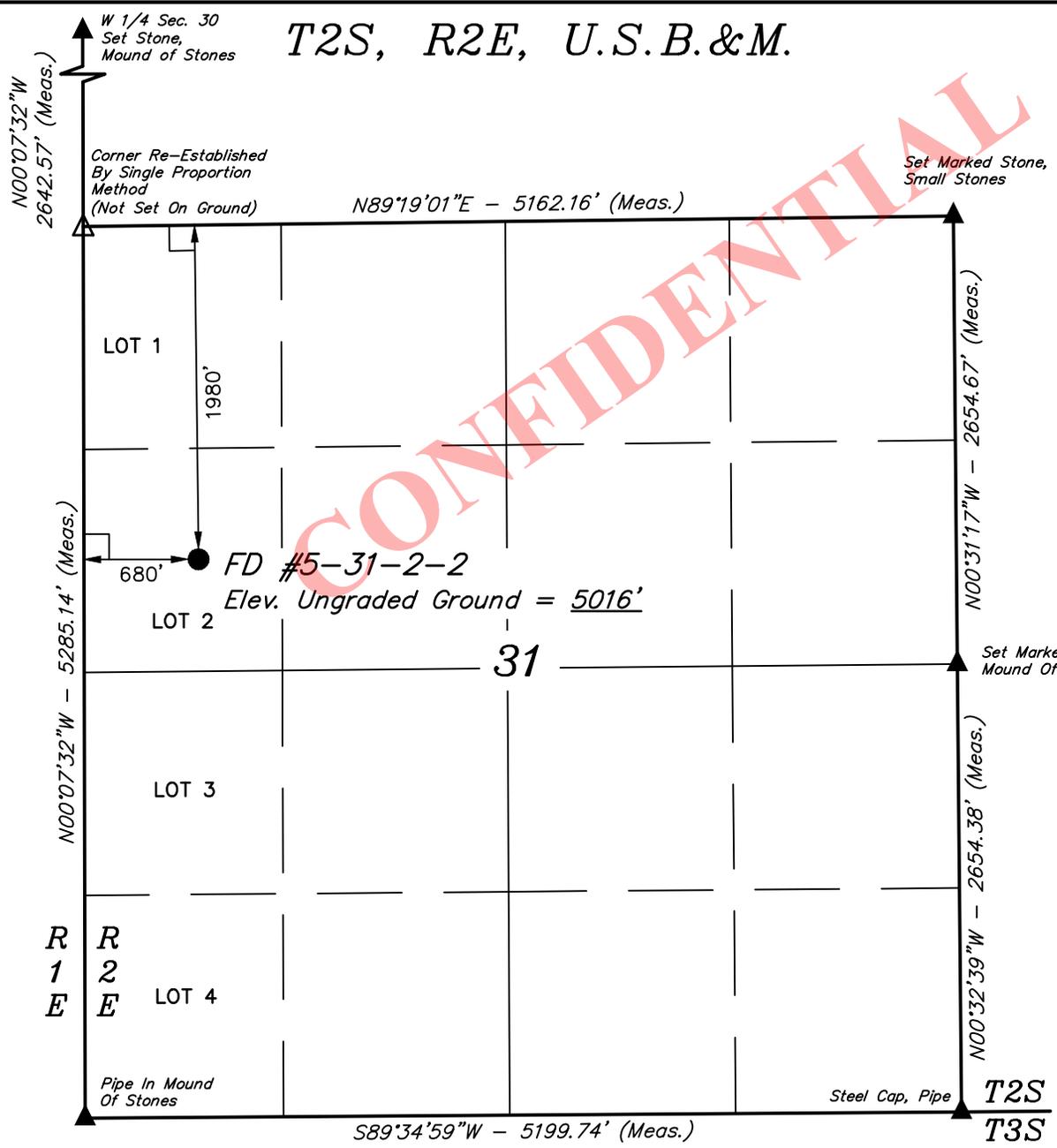
Well location, FD #5-31-2-2, located as shown in LOT 2 of Section 31, T2S, R2E, U.S.B.&M., Uintah County, Utah.

**BASIS OF ELEVATION**

BENCH MARK (38EAM) LOCATED IN THE SW 1/4 OF SECTION 9, T7S, R20E, S.L.B.&M. TAKEN FROM THE PELICAN LAKE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4942 FEET.

**BASIS OF BEARINGS**

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



SCALE  
CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*Robert L. Kay*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

**UINTAH ENGINEERING & LAND SURVEYING**  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(435) 789-1017

**LEGEND:**

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

<b>NAD 83 (SURFACE LOCATION)</b>	
LATITUDE = 40°16'03.03" (40.267508)	
LONGITUDE = 109°49'08.01" (109.818892)	
<b>NAD 27 (SURFACE LOCATION)</b>	
LATITUDE = 40°16'03.17" (40.267547)	
LONGITUDE = 109°49'05.49" (109.818192)	

SCALE 1" = 1000'	DATE SURVEYED: 08-15-13	DATE DRAWN: 08-19-13
PARTY C.R. J.S. K.O.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE BILL BARRETT CORPORATION	

# BILL BARRETT CORPORATION

## FD #5-31-2-2

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 31, T2S, R2E, U.S.B.&M.

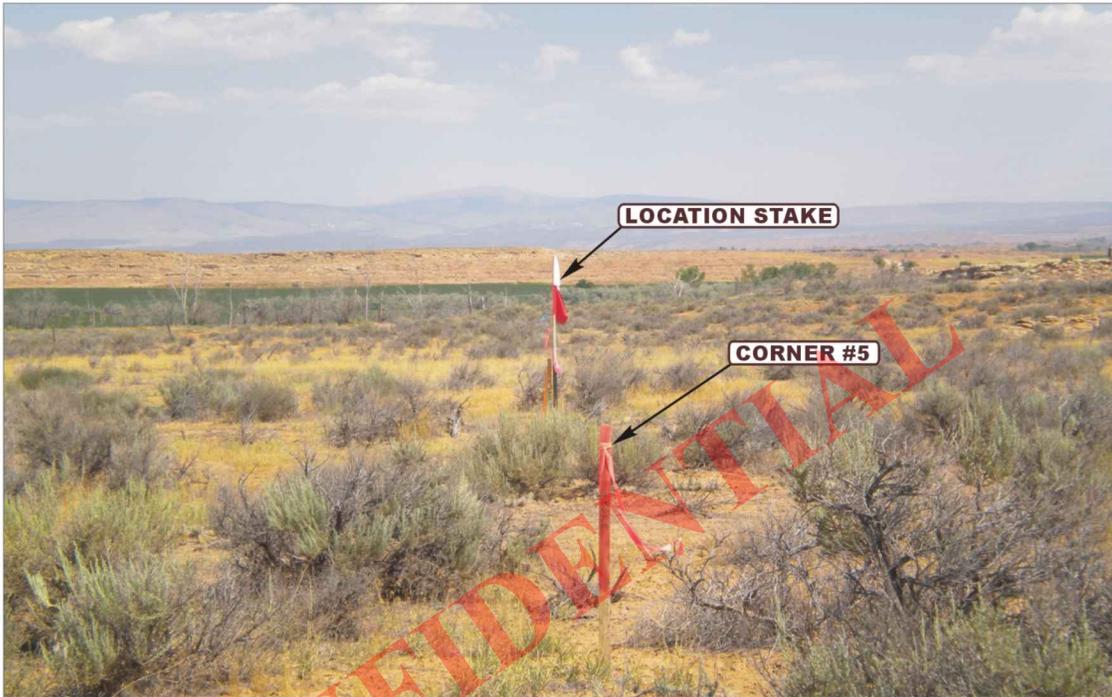


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHERLY



- Since 1964 -

**U  
E  
L  
S** Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**LOCATION PHOTOS**

**08** | **19** | **13**  
MONTH | DAY | YEAR

PHOTO

TAKEN BY: C.R.

DRAWN BY: S.O.

REVISED: 00-00-00

**BILL BARRETT CORPORATION**

LOCATION LAYOUT FOR

FD #5-31-2-2

SECTION 31, T2S, R2E, U.S.B.&M

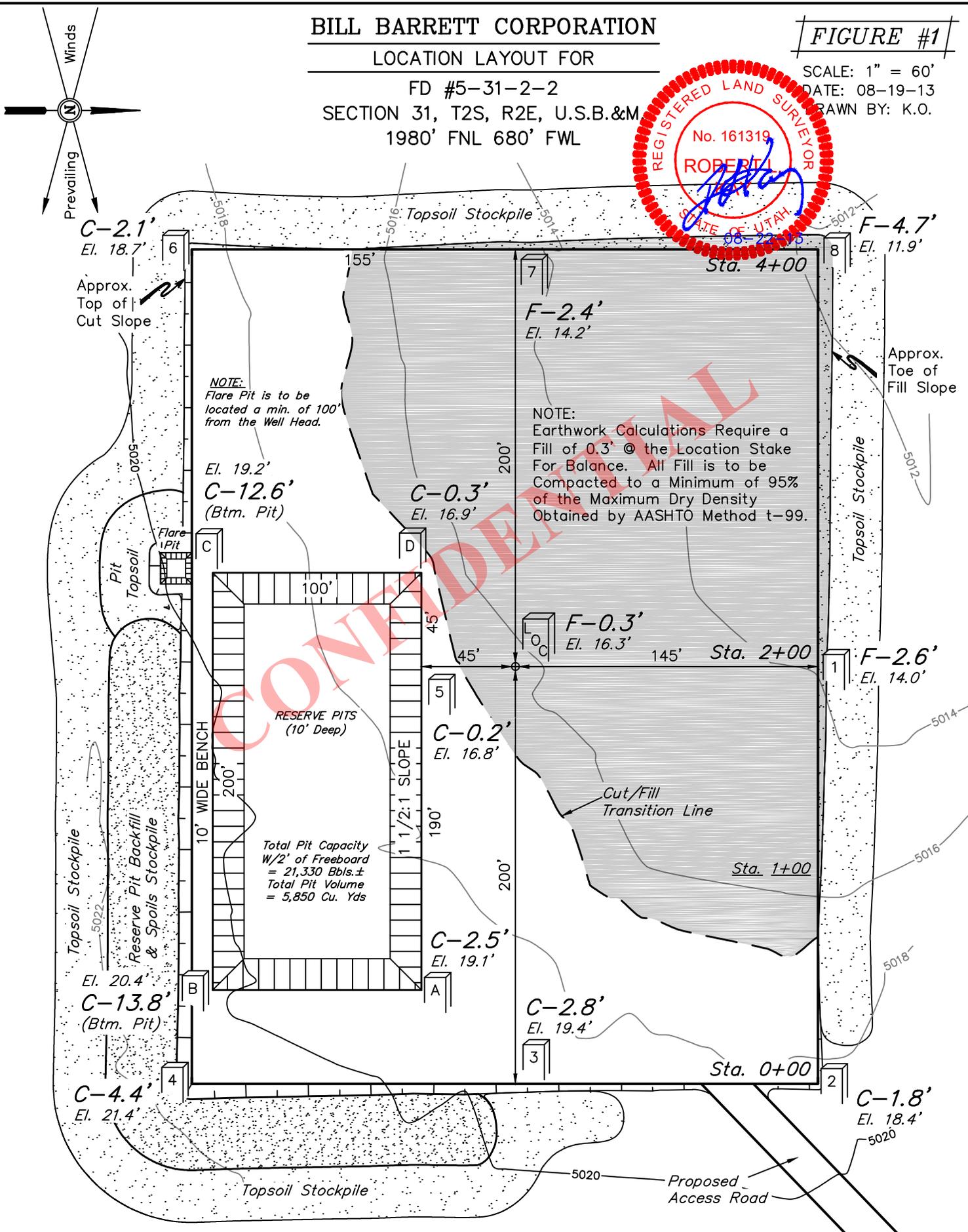
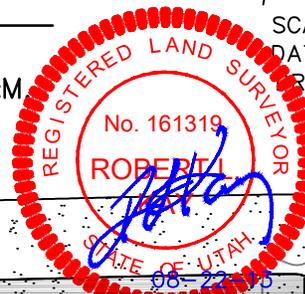
1980' FNL 680' FWL

**FIGURE #1**

SCALE: 1" = 60'

DATE: 08-19-13

DRAWN BY: K.O.



Elev. Ungraded Ground At Loc. Stake = **5016.3'**  
FINISHED GRADE ELEV. AT LOC. STAKE = **5016.6'**

**UINTAH ENGINEERING & LAND SURVEYING**  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

**RECEIVED:** October 23, 2013

**BILL BARRETT CORPORATION**

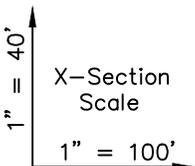
**TYPICAL CROSS SECTIONS FOR**

FD #5-31-2-2

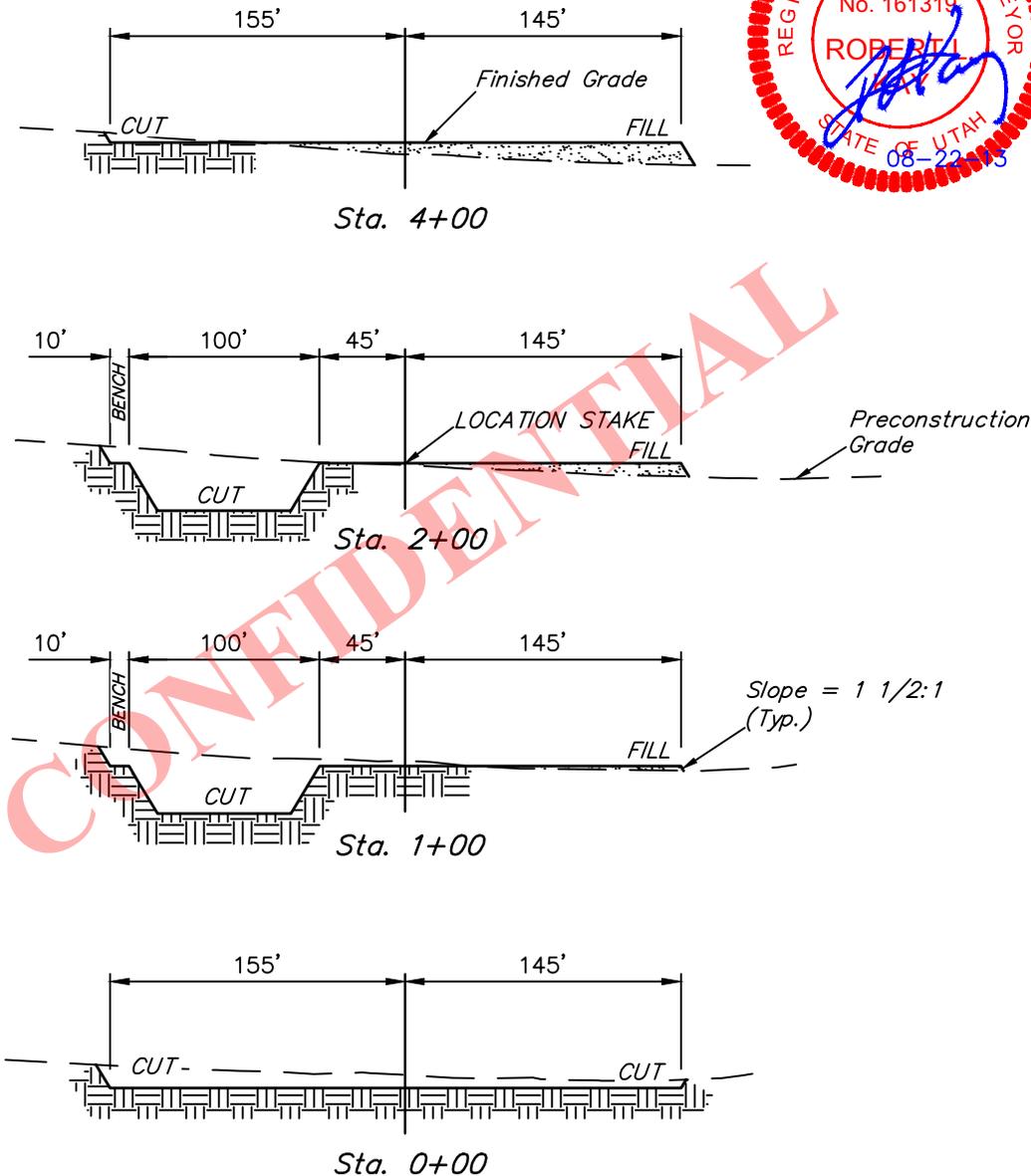
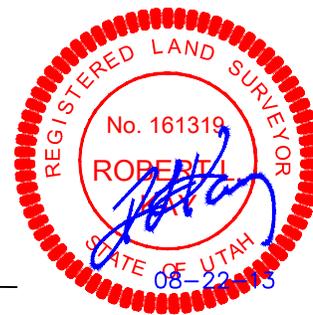
SECTION 31, T2S, R2E, U.S.B.&M.

1980' FNL 680' FWL

**FIGURE #2**



DATE: 08-19-13  
DRAWN BY: K.O.



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**APPROXIMATE ACREAGE**

WELL SITE DISTURBANCE	= ± 5.319 ACRES
ACCESS ROAD DISTURBANCE	= ± 1.426 ACRES
PIPELINE DISTURBANCE	= ± 1.456 ACRES
<b>TOTAL</b>	<b>= ± 8.201 ACRES</b>

\* NOTE:  
FILL QUANTITY INCLUDES  
5% FOR COMPACTION

**APPROXIMATE YARDAGES**

(6") Topsoil Stripping	= 2,360 Cu. Yds.
Remaining Location	= 8,860 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 11,220 CU. YDS.</b>
<b>FILL</b>	<b>= 5,930 CU. YDS.</b>

EXCESS MATERIAL	= 5,290 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 5,290 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.

**UINTAH ENGINEERING & LAND SURVEYING**  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

# BILL BARRETT CORPORATION

## TYPICAL RIG LAYOUT FOR

FD #5-31-2-2

SECTION 31, T2S, R2E, U.S.B.&M.

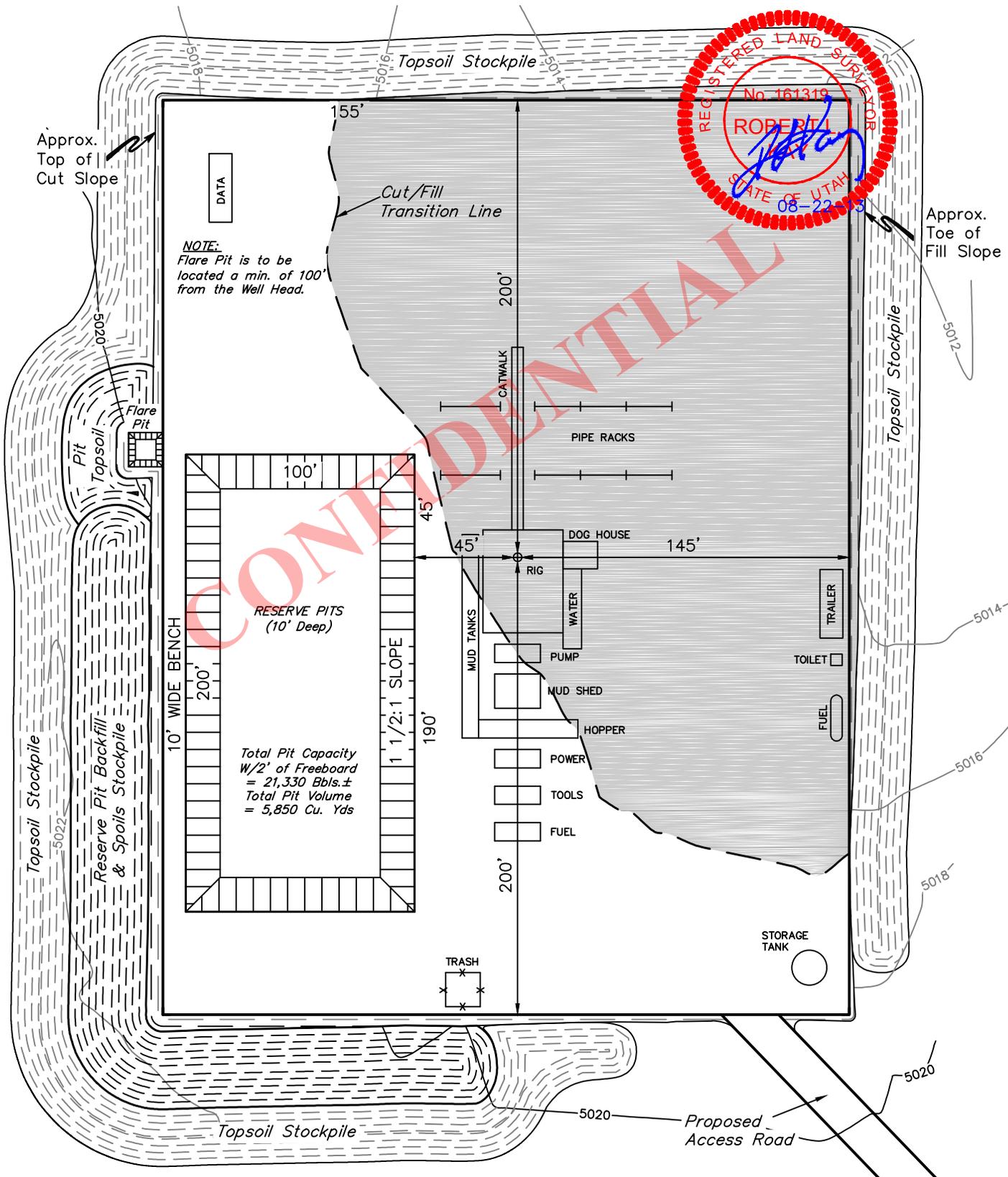
1980' FNL 680' FWL

FIGURE #3

SCALE: 1" = 60'

DATE: 08-19-13

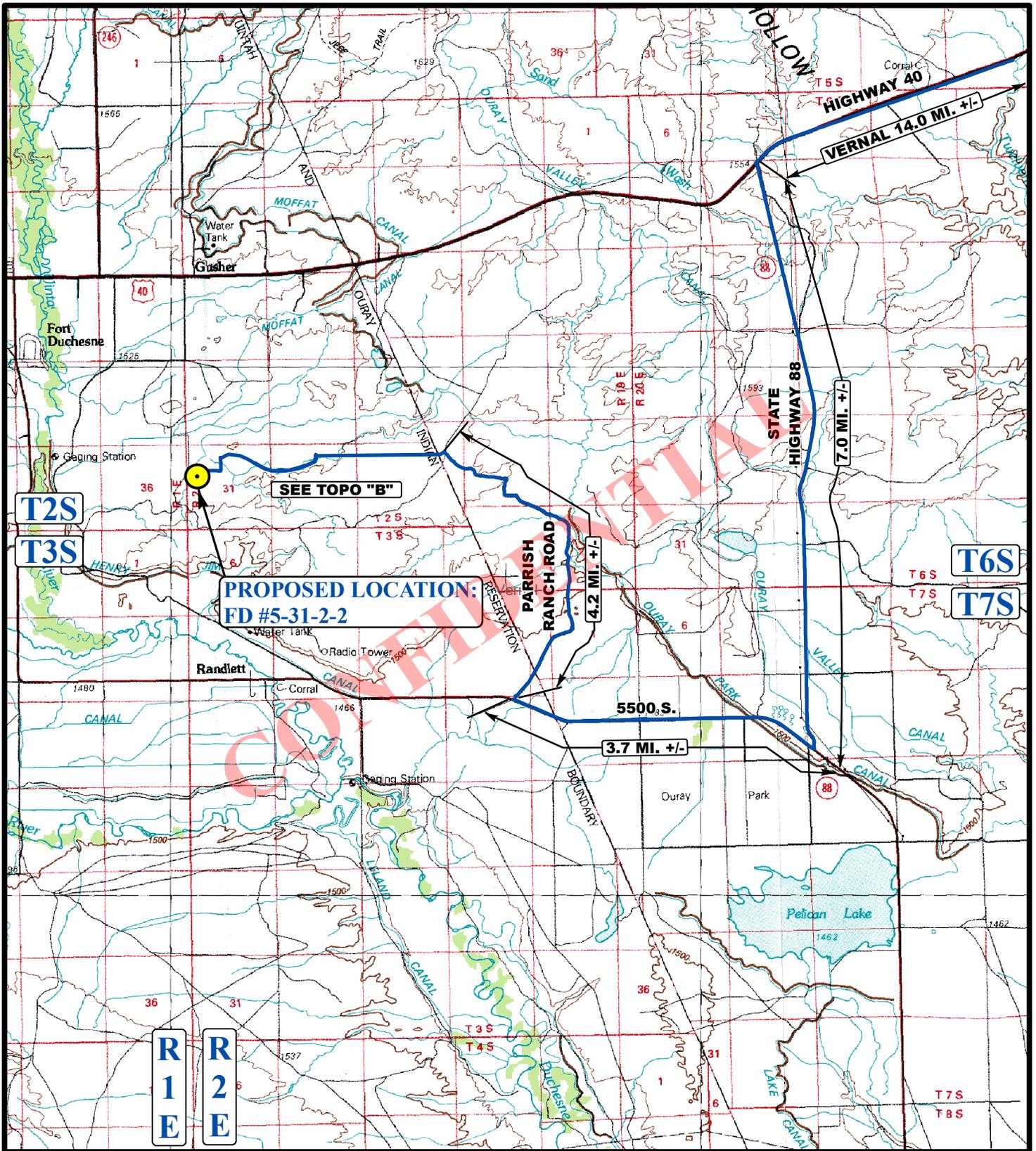
DRAWN BY: K.O.



**BILL BARRETT CORPORATION**  
**FD #5-31-2-2**  
**SECTION 31, T2S, R2E, U.S.B.&M.**

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF THIS ROAD AND STATE HIGHWAY 88 TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 7.0 MILES TO THE JUNCTION OF THIS ROAD AND 5500 S. TO THE NORTHWEST; TURN RIGHT AND PROCEED IN A NORTHWESTERLY, THEN WESTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 3.7 MILES TO THE JUNCTION OF THIS ROAD AND PARRISH RANCH ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY, THEN NORTHERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 4.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN LEFT AND PROCEED IN A WESTERLY DIRECTION APPROXIMATELY 1.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY, THEN WESTERLY DIRECTION APPROXIMATELY 1.2 MILES TO THE EXISTING FD #3-31-2-2 AND THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTH; FOLLOW ROAD FLAGS IN A SOUTHERLY, THEN WESTERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 2,143' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 32.0 MILES.



**LEGEND:**

PROPOSED LOCATION

**BILL BARRETT CORPORATION**

**FD #5-31-2-2**  
**SECTION 31, T2S, R2E, U.S.B.&M.**  
**1980' FNL 680' FWL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

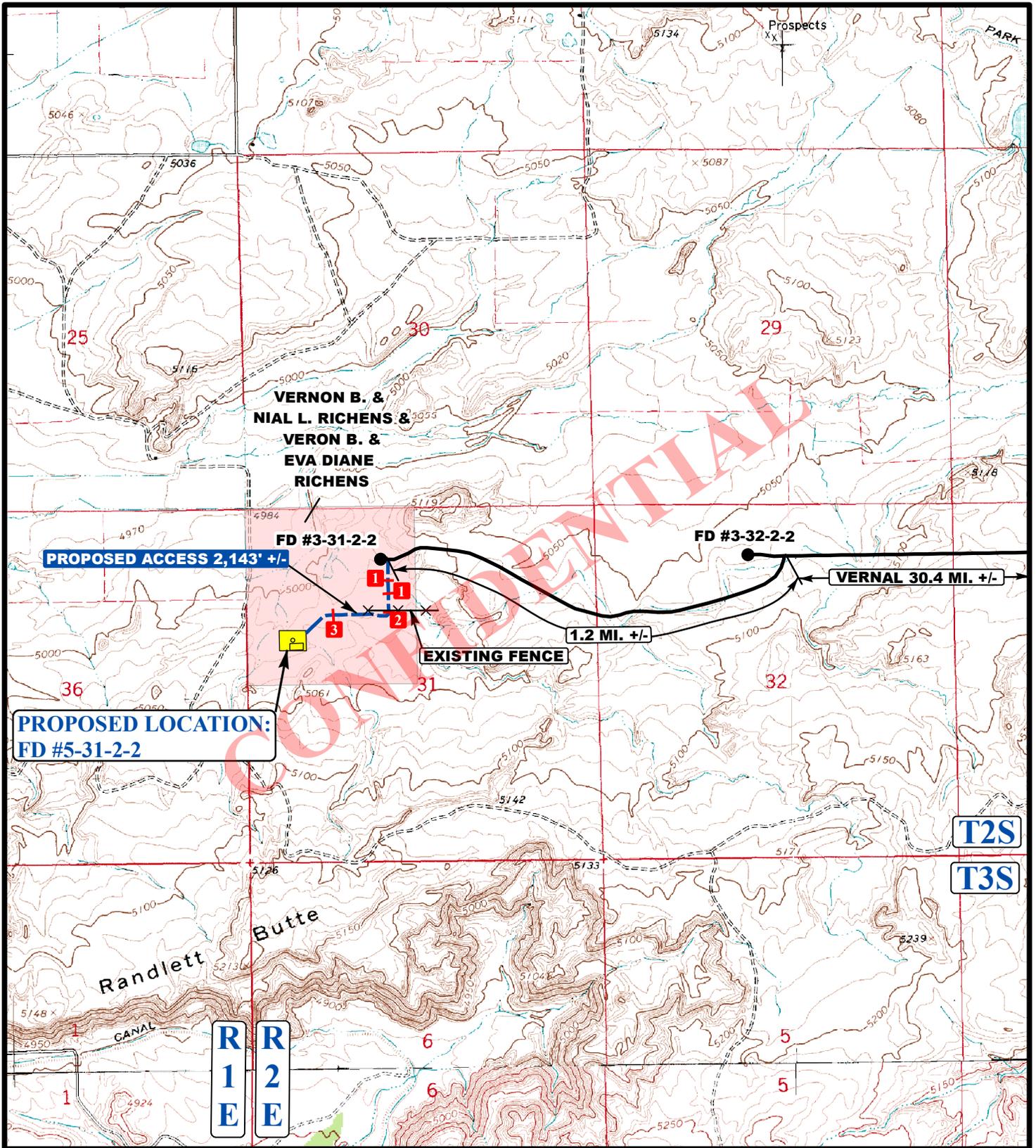


**ACCESS ROAD**  
**MAP**

<b>08</b>	<b>19</b>	<b>13</b>
MONTH	DAY	YEAR

SCALE: 1:100,000 DRAWN BY: S.O. REVISED: 00-00-00





**LEGEND:**

- EXISTING ROADS
- PROPOSED ACCESS ROAD
- EXISTING FENCE
- 18" CMP REQUIRED
- INSTALL CATTLEGUARD
- 24" CMP REQUIRED

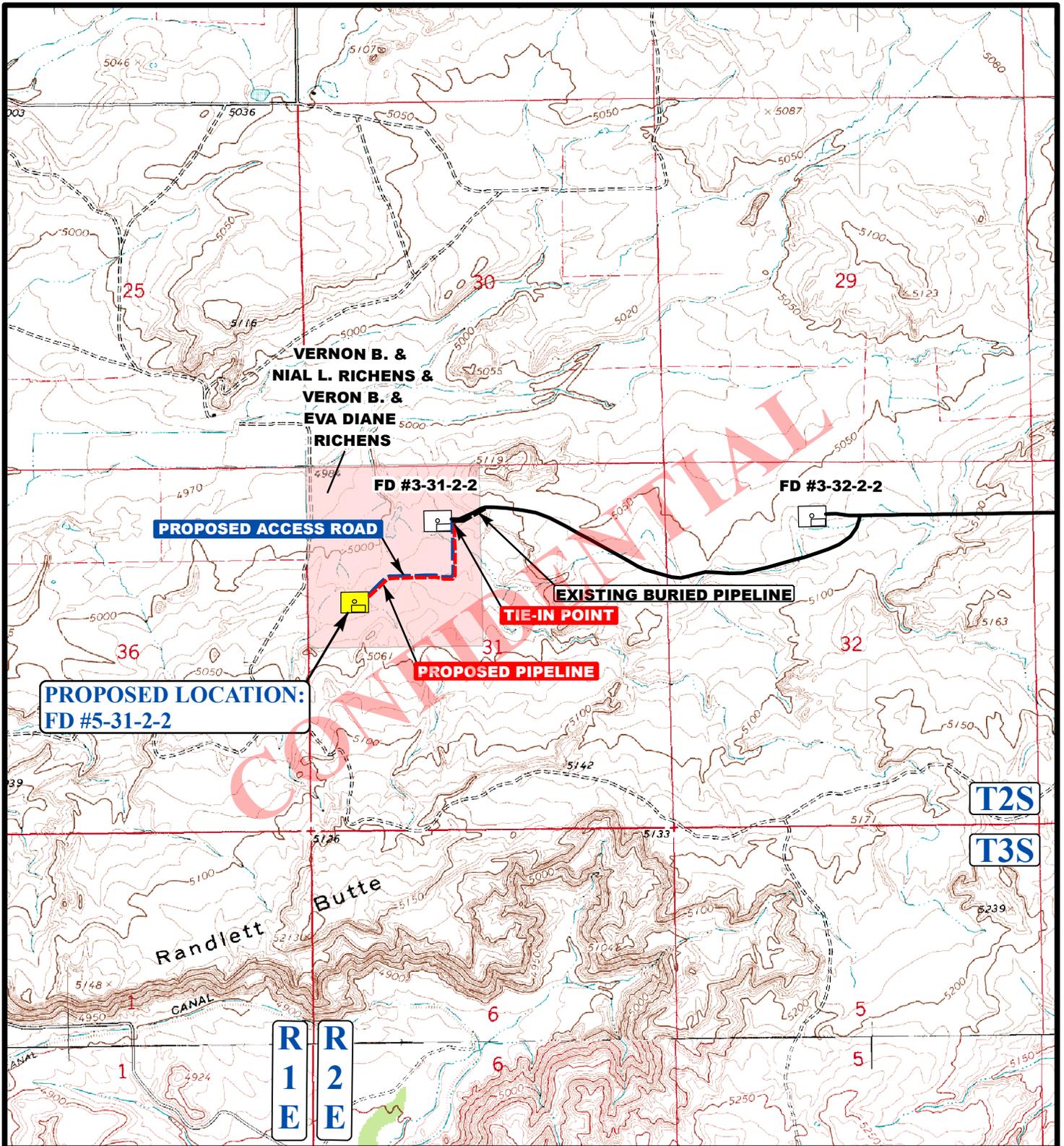
**U&L S** **Utah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



**BILL BARRETT CORPORATION**

**FD #5-31-2-2**  
**SECTION 31, T2S, R2E, U.S.B.&M.**  
**1980' FNL 680' FWL**

<b>ACCESS ROAD MAP</b>	<b>08</b>	<b>19</b>	<b>13</b>	<b>B TOPO</b>
	MONTH	DAY	YEAR	
SCALE: 1"=2000'	DRAWN BY: S.O.		REVISED: 00-00-00	



**APPROXIMATE TOTAL PIPELINE DISTANCE = 2,187' +/-**

**LEGEND:**

- EXISTING ROADS
- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



**BILL BARRETT CORPORATION**

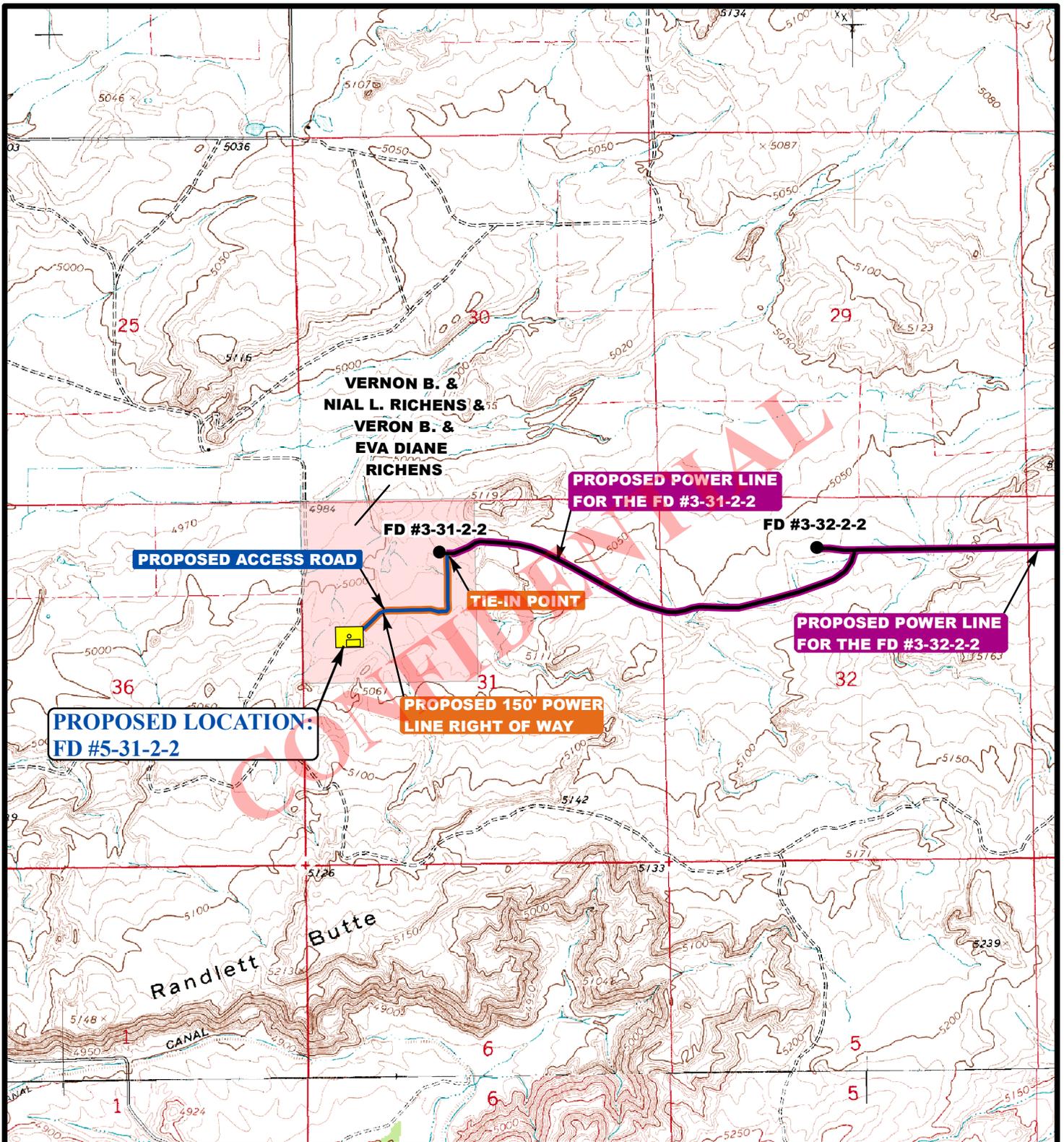
**FD #5-31-2-2**  
**SECTION 31, T2S, R2E, U.S.B.&M.**  
**1980' FNL 680' FWL**

**TOPOGRAPHIC MAP**

**08 19 13**  
 MONTH DAY YEAR

SCALE: 1"=2000' DRAWN BY: S.O. REVISED: 00-00-00





**APPROXIMATE TOTAL POWER LINE DISTANCE 2,159' +/-**

**LEGEND:**

- PROPOSED ACCESS ROAD
- - - - - EXISTING POWER LINE
- PROPOSED POWER LINE
- PROPOSED POWER LINE (SERVICING OTHER WELLS)



**Utah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



**BILL BARRETT CORPORATION**

**FD #5-31-2-2**  
**SECTION 31, T2S, R2E, U.S.B.&M.**  
**1980' FNL 680' FWL**

**TOPOGRAPHIC MAP**

**08 19 13**  
 MONTH DAY YEAR

SCALE: 1"=2000' DRAWN BY: S.O. REVISED: 00-00-00



MEMORANDUM OF SURFACE USE AGREEMENT

Entry 2013010125  
Book 1354 Page 376 \$12.00  
22-OCT-13 10:40  
RANDY SIMMONS  
RECORDER, UINTAH COUNTY, UTAH  
ENCORE LAND SERVICES INC  
PO BOX 1729 VERNAL, UT 84078  
Rec By: DEBRA ROOKS , DEPUTY

State of Utah )(
County of Uintah )(

For Ten Dollars (\$10.00) and other adequate consideration, Vernon B. Richens and Eva Diane Richens, as husband and wife with full rights of survivorship, of P.O. Box 722, Ft. Duchesne, UT 84026, hereafter referred to as "Surface Owners" have granted, a Surface Use Agreement, to Bill Barrett Corporation of 1099 18th Street, #2300, Denver, CO 80202, hereafter referred to as "Bill Barrett", dated October 21, 2013, for the purpose of drilling, and producing oil, gas, and other minerals, laying pipelines, building roads, tanks, power stations, telephone lines and other structures, and producing, saving, take care of, treating, transporting, and owning oil, gas, and other minerals, all on or from FD 5-31-2-2 on the following land (the "Lands") in Uintah County Utah: A tract of land lying in the E/2NW/4 and Lot 2 of Section 31, Township 2 South, Range 2 East, USM, Uintah County.

The Surface Use Agreement is effective as long thereafter as oil, gas, or other minerals are produced from the Lands, or other lands pooled with the Lands, according to and by the terms and provisions of the Lease(s) covering said Lands. This Memorandum is placed of record for the purpose of giving notice of the Surface Use Agreement.

This instrument may be executed in multiple counterparts with each counterpart being considered an original for all purposes herein and binding upon the party executing same whether or not this instrument is executed by all parties hereto, and the signature and acknowledgment pages of the various counterparts hereto may be combined into one instrument for the purposes of recording this instrument in the records of the County Recorder's office.

Executed this 21 day of Oct., 2013.

SURFACE OWNERS:

Vernon B. Richens
Vernon B. Richens

Eva Diane Richens
Eva Diane Richens

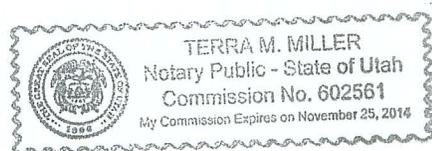
ACKNOWLEDGEMENT

STATE OF UTAH }
} SS
COUNTY OF UINTAH }

BEFORE me, the undersigned, a Notary Public in and for said County and State, on this 21st day of October, 2013, personally appeared Vernon B. and Eva Diane Richens, in the capacity as stated above, known to be the identical person(s) who executed the within and foregoing instrument, and acknowledged to me that they executed the same as a free and voluntary act and deed, for the uses and purposes therein set forth. Given under my hand and seal the day and year last above written.

Terra M. Miller
NOTARY PUBLIC

Residing At: Vernal, UT

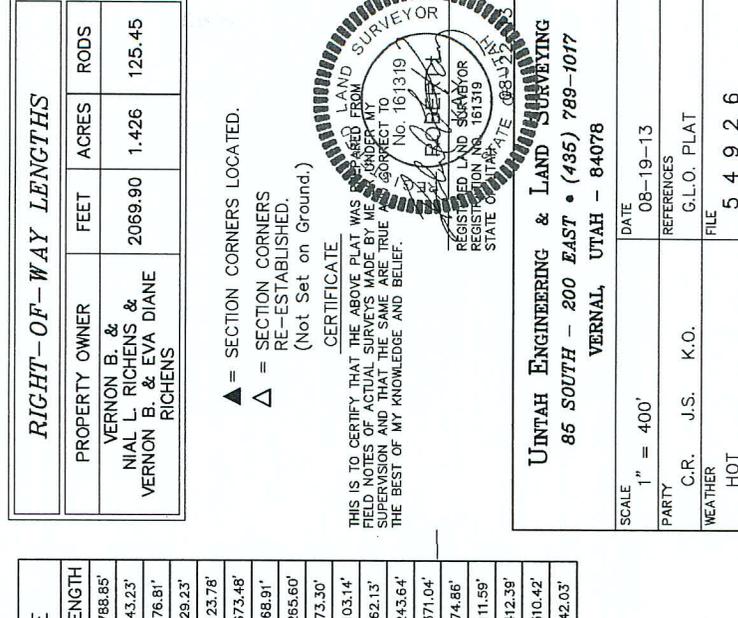
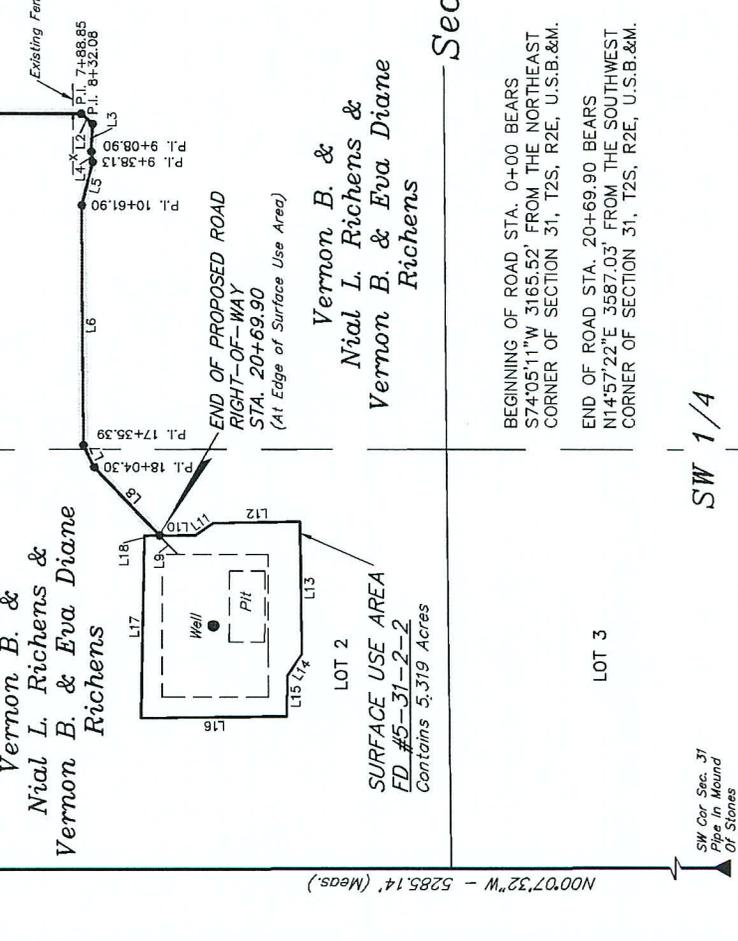
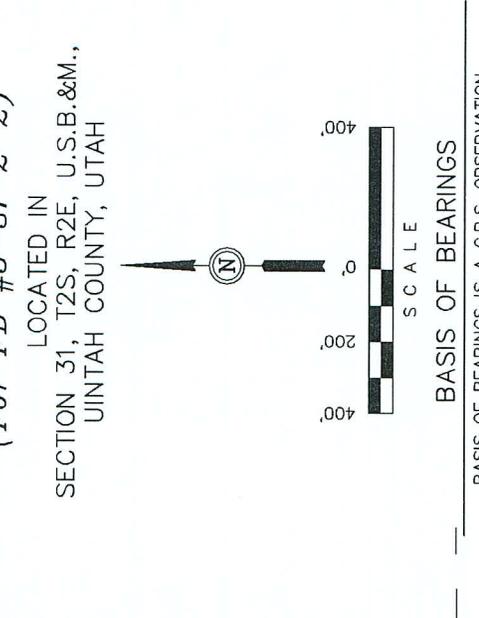
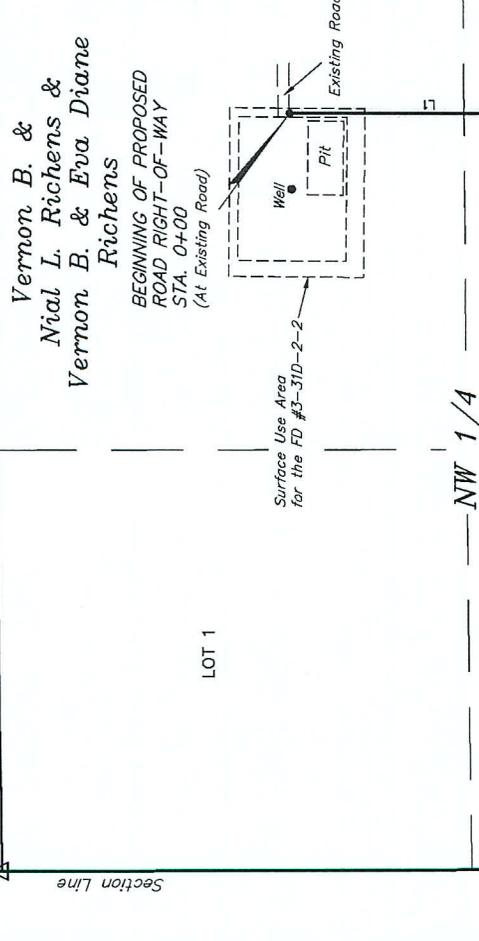


**SURFACE USE AREA DESCRIPTION**  
BEGINNING AT A POINT IN LOT 2 OF SECTION 31, T2S, R2E, U.S.B.&M., WHICH BEARS N14°57'22"E 3587.03' FROM THE SOUTHWEST CORNER OF SAID SECTION 31, THENCE S00°09'00"E 103.14'; THENCE S34°49'03"E 62.13'; THENCE S00°59'12"E 243.64'; THENCE S89°20'18"W 371.04'; THENCE N56°46'46"W 74.86'; THENCE N89°19'29"W 111.59'; THENCE N00°42'50"W 412.39'; THENCE S88°48'23"E 510.42'; THENCE S00°09'00"E 42.03' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 5.319 ACRES MORE OR LESS.

**BILL BARRETT CORPORATION**  
**LOCATION SURFACE USE AREA & ROAD RIGHT-OF-WAY ON FEE LANDS**  
(For FD #5-31-2-2)  
LOCATED IN SECTION 31, T2S, R2E, U.S.B.&M., UTAH COUNTY, UTAH

NE Cor. Sec. 31  
Set in Red Stone  
Small Stones

Corner Re-Established  
By Single Proportion  
Method  
(Not Set on Ground)



**LINE TABLE**

LINE	DIRECTION	LENGTH
L1	S00°01'05"E	788.85'
L2	S40°45'21"W	43.23'
L3	N87°26'05"W	76.81'
L4	S82°41'20"W	29.23'
L5	N75°45'42"W	123.78'
L6	S89°24'32"W	673.48'
L7	S63°28'10"W	88.91'
L8	S46°08'25"W	265.60'
L9	S46°08'25"W	73.30'
L10	S00°09'00"E	103.14'
L11	S34°49'03"E	62.13'
L12	S00°59'12"E	243.64'
L13	S89°20'18"W	371.04'
L14	N56°46'46"W	74.86'
L15	N89°19'29"W	111.59'
L16	N00°42'50"W	412.39'
L17	S88°48'23"E	510.42'
L18	S00°09'00"E	42.03'

**RIGHT-OF-WAY LENGTHS**

PROPERTY OWNER	FEET	ACRES	RODS
VERNON B. & NIAL L. RICHENS & VERNON B. & EVA DIANE RICHENS	2069.90	1.426	125.45

▲ = SECTION CORNERS LOCATED.  
△ = SECTION CORNERS RE-ESTABLISHED.  
(Not Set on Ground.)  
CERTIFICATE  
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME UNDER MY PERSONAL SUPERVISION AND TO THE BEST OF MY KNOWLEDGE AND BELIEF.  
No. 161319  
REGISTERED LAND SURVEYOR  
STATE OF UTAH DATE 08 JUL 2013

UNTAH ENGINEERING & LAND SURVEYING  
85 SOUTH - 200 EAST • (435) 789-1017  
VERNAL, UTAH - 84078

SCALE 1" = 400'  
DATE 08-19-13  
PARTY C.R. J.S. K.O.  
REFERENCES G.L.O. PLAT  
WEATHER FILE 5 4 9 2 6  
HOT

IDENTICAL

SW 1/4  
SE 1/4  
NE 1/4  
NW 1/4

**SURFACE USE AGREEMENT**  
(FD 5-31-2-2)

**THIS AGREEMENT** Dated October 21, 2013 by and between \_\_\_\_\_

**Vernon B. Richens and Eva Diane Richens, husband and wife, as joint tenants with full rights of survivorship**

whose address is P. O. Box 722, Ft. Duchesne, UT 84026

Phone # (435-545-2535)

\_\_\_\_\_, hereinafter referred to as "Surface Owners", and

**Bill Barrett Corporation and its Subsidiaries**

\_\_\_\_\_, whose address is

1099 18<sup>th</sup> Street, #2300, Denver, CO 80202

hereinafter referred to as "Operator".

WITNESSETH:

WHEREAS, Surface Owners represent that they are the owners in fee and in possession of the surface estate for the following described lands in     **Uintah**     County,     **Utah**    , hereinafter referred to as "Lands", to wit:

A tract of land lying in the E/2NW/4 and Lot 2 of Section 31, Township 2 South, Range 2 East, USM as further described on Exhibit "A" attached hereto and made a part hereof.

WHEREAS, Operator has or will acquire certain leasehold interests in the oil and gas mineral estate in the Lands and proposes to conduct drilling and subsequent production operations on the Lands; and

WHEREAS, Surface Owners are generally aware of the nature of the operations which may be conducted under oil and gas leases covering the mineral estate of the Lands; and

WHEREAS, the parties believe that it is in their mutual best interest to agree to the amount of damages to be assessed incident to the operations of Operator on the premises in the exploration for, development and production of oil, gas and/or other leasehold substances under the terms of those certain oil and gas leases now owned or which may be acquired by Operator covering portions of the mineral estate of the Lands; and,

WHEREAS, the parties believe that a reasonable estimate can be made of the damages which will result from the exploration, development and production operations contemplated by such oil and gas leases.

NOW, THEREFORE, in consideration of ten dollars and other valuable consideration, the sufficiency of which is hereby acknowledged, the parties agree as follows:

1. Operator has the right of ingress and egress and to the use of those portions of the Lands which it requires for oil and gas exploration, development and production operations, including tank batteries and other production facilities and the transportation of produced substances from the leasehold, and also the right to construct and use roads and pipelines across portions of the Lands. Operator shall pay Surface Owners as liquidated damages the following sum as full settlement and satisfaction of all damages growing out of, incident to, or in connection with the usual and customary exploration, drilling, completion, sidetracking, reworking, equipping and production operations, contemplated by the oil and gas leases covering the Lands, unless otherwise specifically provided herein:

2. Operator agrees to consult with the surface owners and/or tenant as to all routes of ingress and egress. Prior to the construction of any roads, pipelines, tank battery installations, or installation of any other equipment on the leased premises, Operator shall consult with the surface owners and/or tenant as to the location and direction of same.

3. It is the intention of the parties hereto to cause as little interference with farming operations on the leased premises as reasonably possible, including but specifically not limited to the operation of any pivotal irrigation sprinkler system, or any other irrigation method. If any circular irrigation sprinkler system is in use at the time of initial drilling operations on the leased premises, then any subsequent production equipment, including but specifically not limited to pump jacks, hydraulic lifting equipment, or any other equipment necessary to produce any oil or gas from such well, shall be recessed to such depths, or ramps constructed, so as to allow the continued use of such circular irrigation system.

4. In the event any well hereunder is plugged and abandoned, Operator agrees that Operator will, within a reasonable time, restore Surface Owner's surface estate as near as practical to its original condition found prior to Operator's operations. It is understood and agreed that Surface Owners may elect in writing, prior to cessation of operations of Operator, to have any road constructed under the terms of this Agreement remain upon the property, in which event Operator agrees to leave such road or roads in reasonable condition.

5. Operator is responsible for acquiring all necessary permits, licenses, fees, etc. incident to its operations on the Lands.

6. In the event Surface Owners consider that Operator has not complied with all its obligations hereunder, both express and implied, Surface Owners shall notify Operator in writing, setting out specifically in what respects Operator has breached this contract. Operator shall then have sixty (60) days to meet or commence to meet all or any part of the breaches alleged by Surface Owners. The service of said notice shall be precedent to the bringing of any action by Surface Owners for any cause, and no such action shall be brought until the lapse of sixty (60) days after service of such notice on Operator. In the event of litigation, the prevailing party's reasonable attorney's fees will be paid by the opposing party.

7. Operator shall be responsible and shall remain liable for any environmental problems on the subject lands which are caused by or through its operations. To the extent that any such claims are asserted, Operator will be responsible for any remediation required as provided by state regulations. This assumption of liability, however, does not include any third-party operations on the subject lands or any Surface Owners actions which could cause environmental problems but is limited solely to the actions of Operator. Operator hereby indemnifies and holds harmless Surface Owners from any and all environmental problems it causes on the Lands.

8. In the event Surface Owners own less than the entire fee interest in the Lands, then any payment stated herein shall be proportionately reduced to the interest owned.

9. This Agreement shall remain in full force and effect from the date hereof and for so long thereafter as Operator's oil and gas operations affecting the Lands are in effect.

10. When the word "Operator" is used in this Agreement, it shall also mean the successors and assigns of Operator, including but not limited to its employees and officers, agents, affiliates, contractors, subcontractors and/or purchasers.

11. This Agreement shall be binding upon and inure to the benefit of the heirs, successors and assigns of the parties.

ADDITIONAL PROVISIONS:

**SURFACE OWNERS:**

Vernon B Richens  
By: **Vernon B. Richens**

Eva Diane Richens  
By: **Eva Diane Richens**

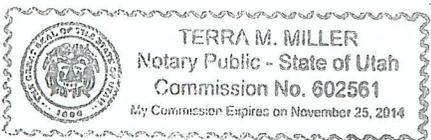
**OPERATOR:**  
**Bill Barrett Corporation**

\_\_\_\_\_  
**Mitchell J. Reneau, Vice President – Land**

**ACKNOWLEDGMENT**

STATE OF Utah }  
COUNTY OF Uintah } SS

BEFORE me, the undersigned, a Notary Public in and for said County and State, on this 21st day of October, 2013, personally appeared **Vernon B and Eva Diane Richens, husband and wife, as joint tenants with full rights of survivorship**, known to be the identical person(s) who executed the within and foregoing instrument, and acknowledged to me that they executed the same as a free and voluntary act and deed, for the uses and purposes therein set forth. Given under my hand and seal the day and year last above written.



Terra M. Miller  
NOTARY PUBLIC

Residing at: Vernal, UT

**ACKNOWLEDGMENT**

STATE OF COLORADO }  
CITY & COUNTY OF DENVER } SS

On the \_\_\_\_\_ day of \_\_\_\_\_, 2013, before me the undersigned authority, appeared **Mitchell J. Reneau**, to me personally known, who, being sworn, did say that they are the Vice President – Land for Bill Barrett Corporation, and that the foregoing instrument was signed in behalf of said partnership and Appearer acknowledged to me that said instrument to be the free act and deed of the partnership.

\_\_\_\_\_  
NOTARY PUBLIC

Residing at: \_\_\_\_\_

BILL BARRETT CORPORATION

**LOCATION SURFACE USE AREA & ROAD RIGHT-OF-WAY ON FEE LANDS**

(For FD #5-31-2-2)

LOCATED IN SECTION 31, T2S, R2E, U.S.B.&M., UTAH COUNTY, UTAH

NE Cor. Sec. 31  
By Marked Stone,  
Small Stones

Corner Re-Established  
By Single Proportion  
Method  
(Not Set On Ground)

W 1/4 Sec. 30  
Set Stone,  
Mound of Stones

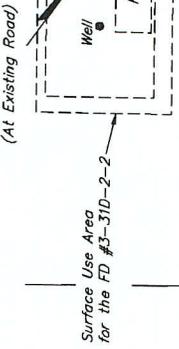
**SURFACE USE AREA DESCRIPTION**

BEGINNING AT A POINT IN LOT 2 OF SECTION 31, T2S, R2E, U.S.B.&M., WHICH BEARS N14°57'22"E 3587.03' FROM THE SOUTHWEST CORNER OF SAID SECTION 31, THENCE S00°09'00"E 103.14'; THENCE S34°49'03"E 62.13'; THENCE S00°59'12"E 243.64'; THENCE S89°20'18"W 371.04'; THENCE N56°46'46"W 74.86'; THENCE N89°19'29"W 111.59'; THENCE N00°42'50"W 412.39'; THENCE S88°48'23"E 510.42'; THENCE S00°09'00"E 42.03' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 5.319 ACRES MORE OR LESS.

Section Line N89°19'01"E - 5162.16' (Meas.)

Vernon B. & Nial L. Richens & Eva Diane Richens

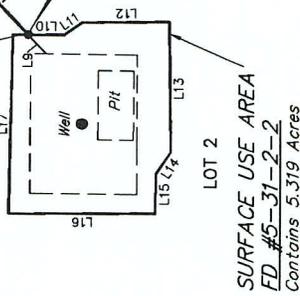
BEGINNING OF PROPOSED ROAD RIGHT-OF-WAY STA. 0+00 (At Existing Road)



LOT 1

NW 1/4

Vernon B. & Nial L. Richens & Eva Diane Richens



SURFACE USE AREA FD #5-31-2-2 Contains 5.319 Acres

SW Cor. Sec. 31  
Set in Mound of Stones

SW 1/4

ROAD RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE NE 1/4 NW 1/4 OF SECTION 31, T2S, R2E, U.S.B.&M., WHICH BEARS S74°05'11"W 3165.52' FROM THE NORTHEAST CORNER OF SAID SECTION 31, THENCE S00°01'05"E 788.85'; THENCE S40°45'21"W 43.23'; THENCE N87°26'05"W 76.81'; THENCE S82°41'20"W 29.23'; THENCE N75°45'42"W 123.78'; THENCE S89°24'32"W 673.48'; THENCE S63°28'10"W 68.91'; THENCE S46°08'25"W 265.60' TO A POINT IN LOT 2 OF SAID SECTION 31, WHICH BEARS N14°57'22"E 3587.03' FROM THE SOUTHWEST CORNER OF SAID SECTION 31. SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 1.426 ACRES MORE OR LESS.

1/16 Section Line NE 1/4

LINE	DIRECTION	LENGTH
L1	S00°01'05"E	788.85'
L2	S40°45'21"W	43.23'
L3	N87°26'05"W	76.81'
L4	S82°41'20"W	29.23'
L5	N75°45'42"W	123.78'
L6	S89°24'32"W	673.48'
L7	S63°28'10"W	68.91'
L8	S46°08'25"W	265.60'
L9	S46°08'25"W	73.30'
L10	S00°09'00"E	103.14'
L11	S34°49'03"E	62.13'
L12	S00°59'12"E	243.64'
L13	S89°20'18"W	371.04'
L14	N56°46'46"W	74.86'
L15	N89°19'29"W	111.59'
L16	N00°42'50"W	412.39'
L17	S88°48'23"E	510.42'
L18	S00°09'00"E	42.03'

PROPERTY OWNER	FEET	ACRES	RODS
VERNON B. & NIAL L. RICHENS & VERNON B. & EVA DIANE RICHENS	2069.90	1.426	125.45



SCALE

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

RIGHT-OF-WAY LENGTHS

- ▲ = SECTION CORNERS LOCATED.
- △ = SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground.)



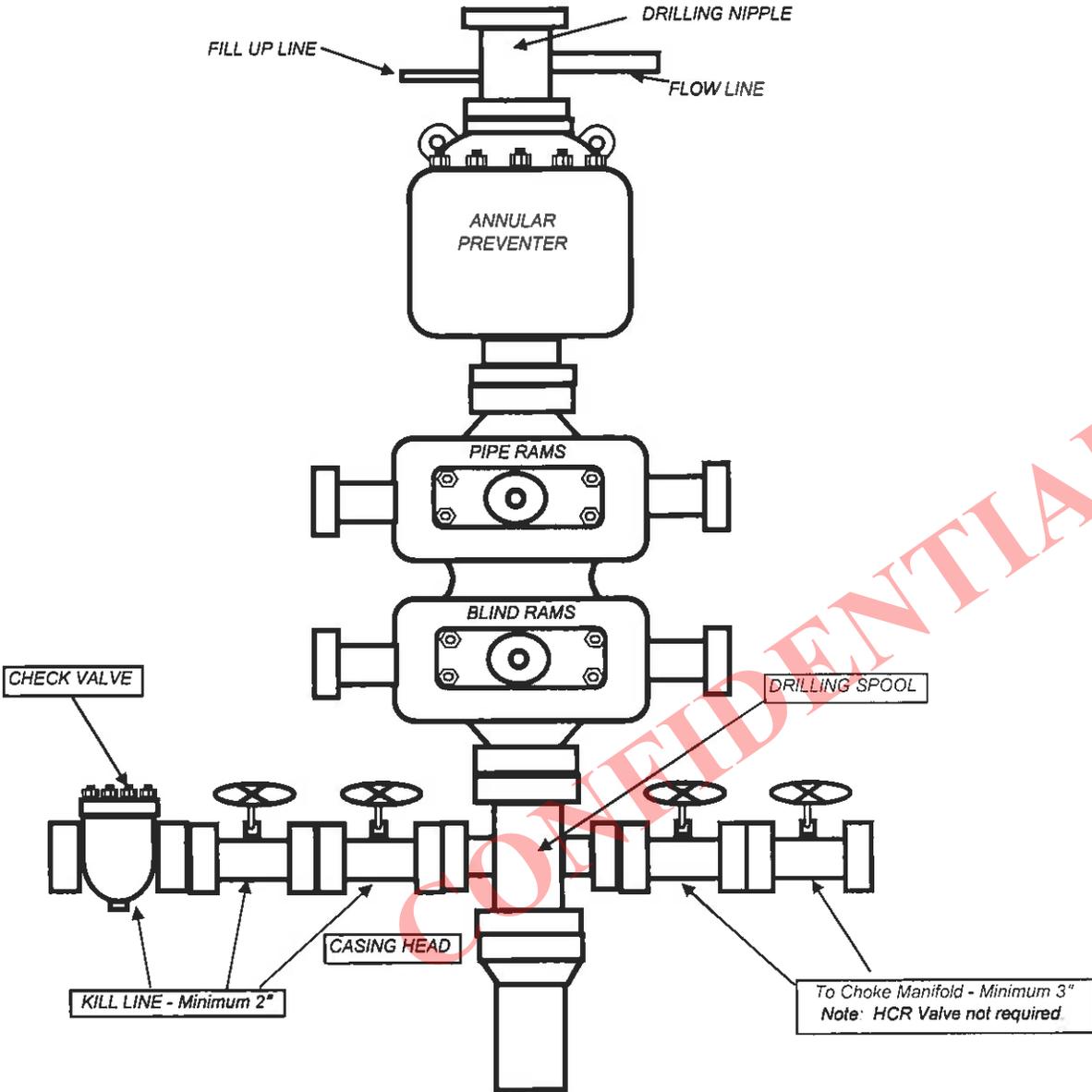
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

UTAH ENGINEERING & LAND SURVEYING  
85 SOUTH - 200 EAST • (435) 789-1017  
VERNAL, UTAH - 84078

SCALE	DATE
1" = 400'	08-19-13
PARTY	REFERENCES
C.R. J.S. K.O.	G.L.O. PLAT
WEATHER	FILE
HOT	5 4 9 2 6

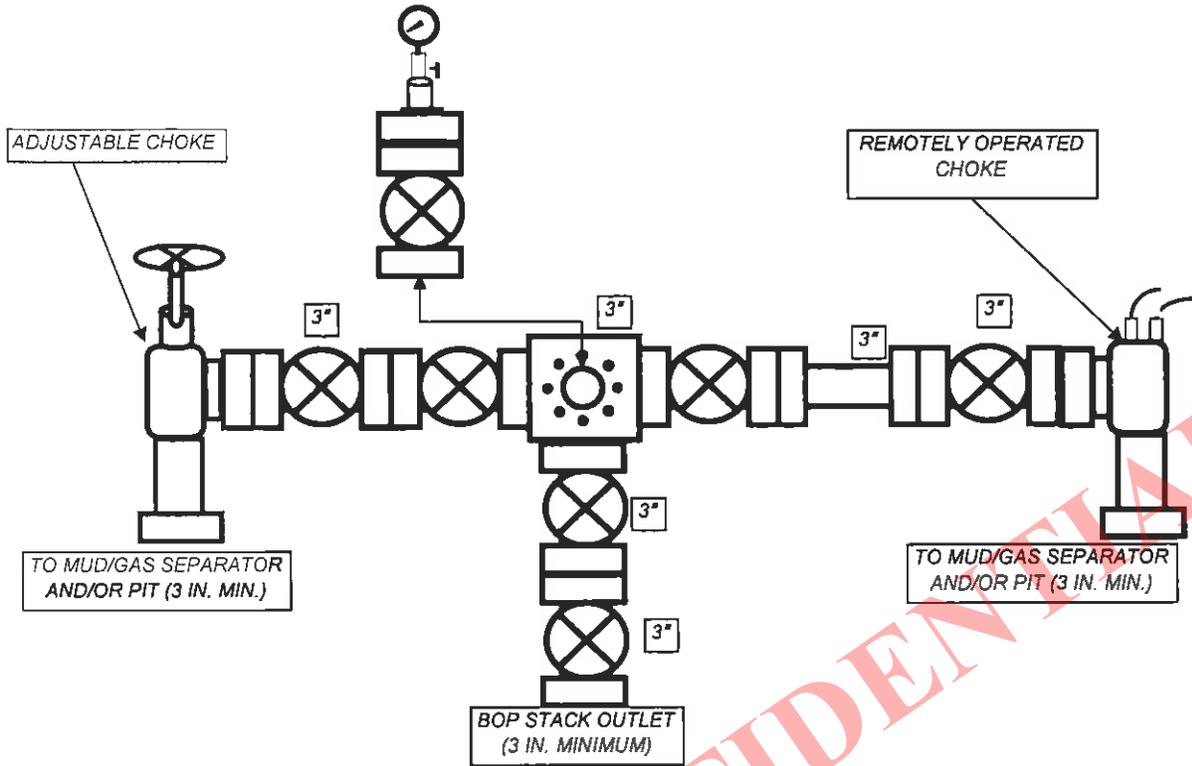
# BILL BARRETT CORPORATION

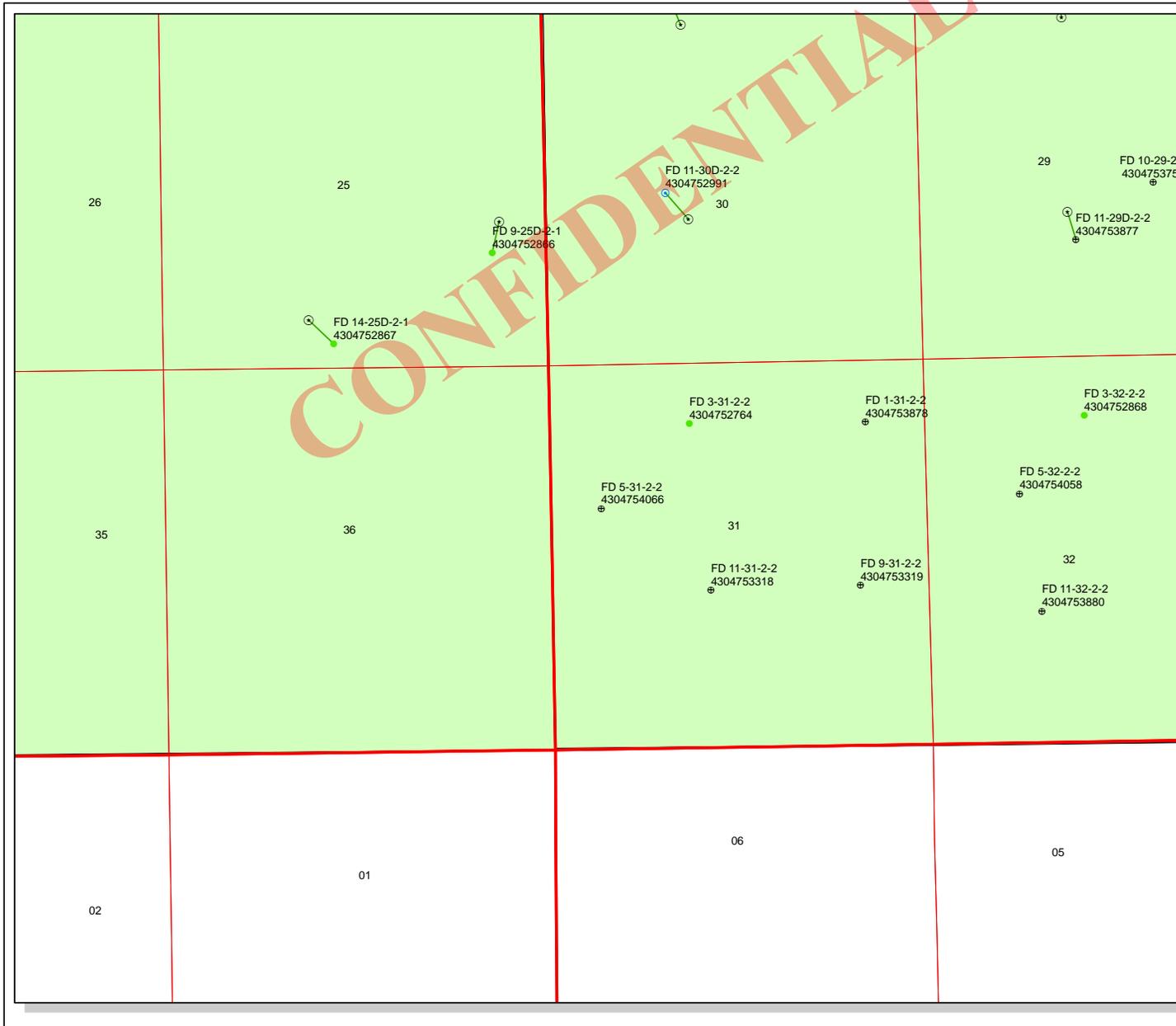
## TYPICAL 5,000 p.s.i. BLOWOUT PREVENTER



# BILL BARRETT CORPORATION

## TYPICAL 5,000 p.s.i. CHOKE MANIFOLD





**API Number: 4304754066**

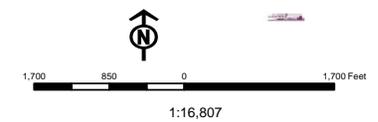
**Well Name: FD 5-31-2-2**

Township: T02.0S Range: R02.0E Section: 31 Meridian: U

Operator: BILL BARRETT CORP

Map Prepared: 10/24/2013  
Map Produced by Diana Mason

Wells Query		Units STATUS	
◆	APD - Approved Permit	▨	ACTIVE
⊙	DRL - Spudded (Drilling Commenced)	▨	EXPLORATORY
+	GW - Gas Injection	▨	GAS STORAGE
+	GS - Gas Storage	▨	NF PP OIL
⊕	LOC - New Location	▨	NF SECONDARY
⊕	OPS - Operation Suspended	▨	PI OIL
⊕	PA - Plugged Abandoned	▨	PP GAS
⊕	PGW - Producing Gas Well	▨	PP GEOTHERML
⊕	POW - Producing Oil Well	▨	PP OIL
⊕	SGW - Shut-in Gas Well	▨	SECONDARY
⊕	SOW - Shut-in Oil Well	▨	TERMINATED
⊕	TA - Temp. Abandoned		
○	TW - Test Well		
⊕	WDW - Water Disposal		
+	WW - Water Injection Well		
●	WSW - Water Supply Well		



BOPE REVIEW BILL BARRETT CORP FD 5-31-2-2 43047540660000

Well Name	BILL BARRETT CORP FD 5-31-2-2 43047540660000			
String	COND	SURF	PROD	
Casing Size(")	16.000	9.625	5.500	
Setting Depth (TVD)	80	3600	9706	
Previous Shoe Setting Depth (TVD)	0	80	3600	
Max Mud Weight (ppg)	8.7	8.7	9.5	
BOPE Proposed (psi)	0	500	5000	
Casing Internal Yield (psi)	1000	3520	10640	
Operators Max Anticipated Pressure (psi)	4795		9.5	

Calculations	COND String	16.000	"
Max BHP (psi)	.052*Setting Depth*MW=	36	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	26	NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	18	NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	18	NO
Required Casing/BOPE Test Pressure=		80	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

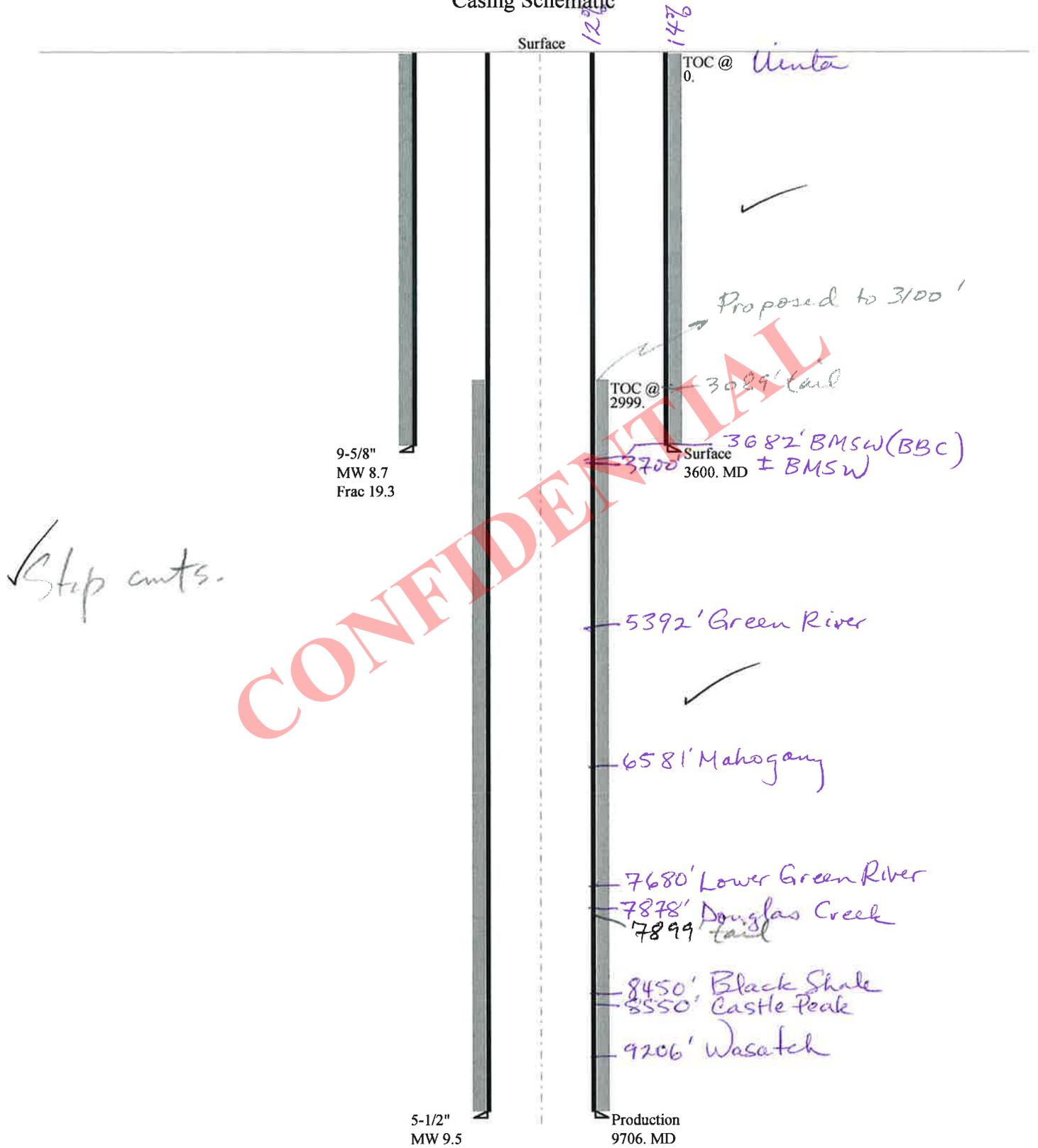
Calculations	SURF String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	1629	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1197	NO air/mist/FW mud, diverter or rotating head
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	837	NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	855	NO
Required Casing/BOPE Test Pressure=		2464	psi
*Max Pressure Allowed @ Previous Casing Shoe=		80	psi *Assumes 1psi/ft frac gradient

Calculations	PROD String	5.500	"
Max BHP (psi)	.052*Setting Depth*MW=	4795	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3630	YES 5M BOPE, ram type, 5M annular
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2660	YES
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	3452	YES
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		3520	psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

# 43047540660000 FD 5-31-2-2

## Casing Schematic



Well name:	<b>43047540660000 FD 5-31-2-2</b>		
Operator:	<b>BILL BARRETT CORP</b>	Project ID:	43-047-54066
String type:	Surface		
Location:	UINTAH COUNTY		

**Design parameters:**

**Collapse**

Mud weight: 8.700 ppg  
 Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
 Surface temperature: 74 °F  
 Bottom hole temperature: 124 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 100 ft

Cement top: Surface

**Burst**

Max anticipated surface pressure: 3,168 psi  
 Internal gradient: 0.120 psi/ft  
 Calculated BHP 3,600 psi  
 Annular backup: 1.50 ppg

**Tension:**

8 Round STC: 1.80 (J)  
 8 Round LTC: 1.70 (J)  
 Buttress: 1.60 (J)  
 Premium: 1.50 (J)  
 Body yield: 1.50 (B)

Tension is based on buoyed weight.  
 Neutral point: 3,137 ft

**Non-directional string.**

**Re subsequent strings:**

Next setting depth: 9,706 ft  
 Next mud weight: 9.500 ppg  
 Next setting BHP: 4,790 psi  
 Fracture mud wt: 19.250 ppg  
 Fracture depth: 3,600 ft  
 Injection pressure: 3,600 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	3600	9.625	36.00	J-55	LT&C	3600	3600	8.796	29439
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1627	2020	1.242	3319	3520	1.06	112.9	453	4.01 J

Prepared Helen Sadik-Macdonald  
 by: Div of Oil, Gas & Mining

Phone: 801-538-5357  
 FAX: 801-359-3940

Date: November 20, 2013  
 Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 3600 ft, a mud weight of 8.7 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	<b>43047540660000 FD 5-31-2-2</b>	
Operator:	<b>BILL BARRETT CORP</b>	Project ID:
String type:	Production	43-047-54066
Location:	UINTAH COUNTY	

**Design parameters:**

**Collapse**

Mud weight: 9.500 ppg  
 Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
 Surface temperature: 74 °F  
 Bottom hole temperature: 210 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 1,000 ft  
 Cement top: 2,999 ft

**Burst**

Max anticipated surface pressure: 2,655 psi  
 Internal gradient: 0.220 psi/ft  
 Calculated BHP 4,790 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
 8 Round LTC: 1.80 (J)  
 Buttress: 1.60 (J)  
 Premium: 1.50 (J)  
 Body yield: 1.60 (B)

**Non-directional string.**

Tension is based on buoyed weight.  
 Neutral point: 8,308 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	9706	5.5	17.00	P-110	LT&C	9706	9706	4.767	63931
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	4790	7480	1.562	4790	10640	2.22	141.2	445	3.15 J

Prepared by: Helen Sadik-Macdonald  
 Div of Oil, Gas & Mining

Phone: 801 538-5357  
 FAX: 801-359-3940

Date: November 20, 2013  
 Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 9706 ft, a mud weight of 9.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.



**Drainage Diversion Required? Y**

Minor drainages to be diverted

**Berm Required? N****Erosion Sedimentation Control Required? N****Paleo Survey Run? N    Paleo Potential Observed? N    Cultural Survey Run? N    Cultural Resources? N****Reserve Pit**

Site-Specific Factors		Site Ranking
<b>Distance to Groundwater (feet)</b>	25 to 75	15
<b>Distance to Surface Water (feet)</b>	>1000	0
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0
<b>Distance to Other Wells (feet)</b>	>1320	0
<b>Native Soil Type</b>	Mod permeability	10
<b>Fluid Type</b>	TDS>10000	15
<b>Drill Cuttings</b>	Normal Rock	0
<b>Annual Precipitation (inches)</b>		0
<b>Affected Populations</b>		
<b>Presence Nearby Utility Conduits</b>	Not Present	0
	<b>Final Score</b>	40    1 Sensitivity Level

**Characteristics / Requirements**

The reserve pit is proposed in a cut stable location. Dimensions are 200 x 100 x 10ft. Bill Barrett representative Kary Eldredge stated that a 20 mil reserve pit liner and felt subliner will be used. This liner program appears adequate for this location.

**Closed Loop Mud Required? N    Liner Required? Y    Liner Thickness 16    Pit Underlayment Required? Y****Other Observations / Comments**Richard Powell  
Evaluator11/6/2013  
Date / Time

**Application for Permit to Drill  
Statement of Basis  
Utah Division of Oil, Gas and Mining**

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
8812	43047540660000	LOCKED	OW	P	No
<b>Operator</b>	BILL BARRETT CORP		<b>Surface Owner-APD</b>	TRACY RICHENS	
<b>Well Name</b>	FD 5-31-2-2		<b>Unit</b>		
<b>Field</b>	WILDCAT		<b>Type of Work</b>	DRILL	
<b>Location</b>	SWNW 31 2S 2E U 1980 FNL (UTM) 600430E 4458119N		680 FWL	GPS Coord	

**Geologic Statement of Basis**

Bill Barrett proposes to set 80 feet of conductor and 3,600 feet of surface casing at this location. The entire surface hole will be drilled with fresh water mud. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 3,700'. A search of Division of Water Rights records shows 5 water wells within a 10,000 foot radius of the center of Section 31. The wells are 60-400 feet in depth with listed uses as domestic, irrigation and stock watering. Only one well is within .5 miles of the proposed location. The wells probably produce water from near-surface alluvium and the Uinta Formation. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing and cement should adequately protect ground water in this area.

Brad Hill  
APD Evaluator

11/20/2013  
Date / Time

**Surface Statement of Basis**

This well is on fee surface with fee minerals. Surface owner Vernon Richens was invited to this onsite and several other well sites on Mr. Richens land to be visited this day. I spoke with Mr. Richens to discuss the well sites in general and he stated that prior to placement of the wells on the Richens land, he was consulted by Bill Barrett Corporation and all locations were placed such that his farming and livestock operation would not be disturbed. Mr. Richens chose not to participate in the days presite inspections but expressed that he had no concerns with any of the proposed locations. According to Kary Eldredge a 20 mil liner will be used for this reserve pit. This liner will be adequate for the location. Minor drainage diversions will be needed for this location but it appears to be a good site for this well.

Richard Powell  
Onsite Evaluator

11/6/2013  
Date / Time

**Conditions of Approval / Application for Permit to Drill**

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	The reserve pit shall be fenced upon completion of drilling operations.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/23/2013

API NO. ASSIGNED: 43047540660000

WELL NAME: FD 5-31-2-2

OPERATOR: BILL BARRETT CORP (N2165)

PHONE NUMBER: 303 312-8115

CONTACT: Brady Riley

PROPOSED LOCATION: SWNW 31 020S 020E

Permit Tech Review: 

SURFACE: 1980 FNL 0680 FWL

Engineering Review: 

BOTTOM: 1980 FNL 0680 FWL

Geology Review: 

COUNTY: UINTAH

LATITUDE: 40.26752

LONGITUDE: -109.81884

UTM SURF EASTINGS: 600430.00

NORTHINGS: 4458119.00

FIELD NAME: WILDCAT

LEASE TYPE: 4 - Fee

LEASE NUMBER: fee

PROPOSED PRODUCING FORMATION(S): GREEN RIVER(LWR)-WASATCH

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

## RECEIVED AND/OR REVIEWED:

## LOCATION AND SITING:

- PLAT
- Bond: STATE - LPM4138148
- Potash
- Oil Shale 190-5
- Oil Shale 190-3
- Oil Shale 190-13
- Water Permit: 49-1645
- RDCC Review:
- Fee Surface Agreement
- Intent to Commingle

 R649-2-3.

Unit:

 R649-3-2. General R649-3-3. Exception Drilling Unit

Board Cause No: Cause 139-106

Effective Date: 11/14/2013

Siting: 660' Fr Drlg U Bdry &amp; 990' Fr Other Wells

 R649-3-11. Directional Drill

Commingle Approved

Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhill  
 12 - Cement Volume (3) - hmacdonald  
 25 - Surface Casing - hmacdonald  
 27 - Other - hmacdonald



GARY R. HERBERT  
Governor

SPENCER J. COX  
Lieutenant Governor

# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

Division of Oil, Gas and Mining

JOHN R. HAZA  
Division Director

## Permit To Drill

\*\*\*\*\*

**Well Name:** FD 5-31-2-2

**API Well Number:** 43047540660000

**Lease Number:** fee

**Surface Owner:** FEE (PRIVATE)

**Approval Date:** 12/3/2013

### Issued to:

BILL BARRETT CORP, 1099 18th Street Ste 2300, Denver, CO 80202

### Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-106. The expected producing formation or pool is the GREEN RIVER(LWR)-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

### Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

### Conditions of Approval:

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Cement volume for the 5 1/2" production string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 3100' MD as indicated in the submitted drilling plan.

Surface casing shall be cemented to the surface.

A properly maintained and lubricated rotating head shall be in place when drilling with air.

### Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this

well:

- Any changes to the approved drilling plan - contact Dustin Doucet
- Significant plug back of the well - contact Dustin Doucet
- Plug and abandonment of the well - contact Dustin Doucet

**Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels  
OR  
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website  
at <http://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program
  - contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well - contact Dan Jarvis

**Contact Information:**

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office  
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office  
801-231-8956 - after office hours

**Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

**Approved By:**

**Approved by:**

A handwritten signature in black ink, appearing to read "J. Rogers", written in a cursive style.

For John Rogers  
Associate Director, Oil & Gas

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: fee
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: FD 5-31-2-2
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 4304754066000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8134 Ext
	9. FIELD and POOL or WILDCAT: WILDCAT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1980 FNL 0680 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 31 Township: 02.0S Range: 02.0E Meridian: U	COUNTY: UINTAH
	STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

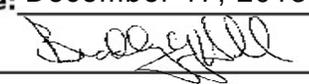
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 12/12/2013	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="access road and pipeline rou"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Attached is the updated access road and pipeline route which was requested at the onsite of this pad. No other changes are being made to the pad.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining**

Date: December 17, 2013

By: 

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 12/11/2013	

**BILL BARRETT CORPORATION**

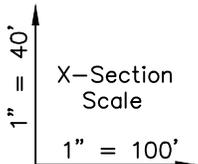
TYPICAL CROSS SECTIONS FOR

FD #5-31-2-2

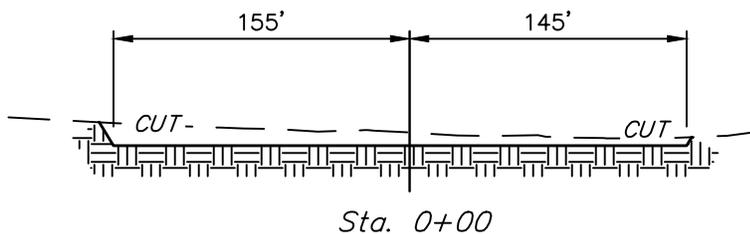
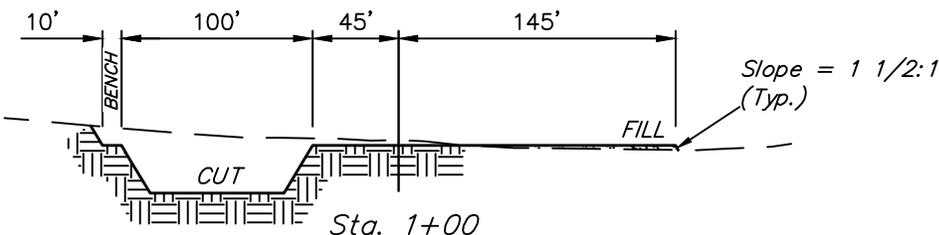
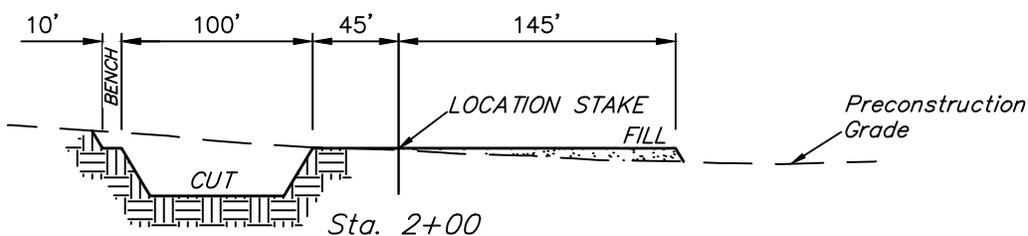
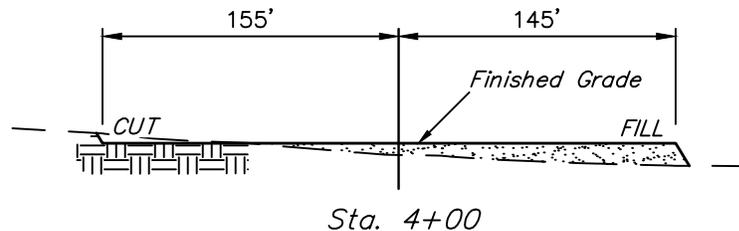
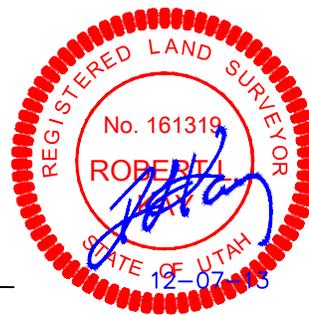
SECTION 31, T2S, R2E, U.S.B.&M.

1980' FNL 680' FWL

**FIGURE #2**



DATE: 08-19-13  
DRAWN BY: K.O.  
REV: 12-04-13 S.S.



APPROXIMATE ACREAGE  
WELL SITE DISTURBANCE = ± 5.319 ACRES  
ACCESS ROAD DISTURBANCE = ± 1.387 ACRES  
PIPELINE DISTURBANCE = ± 1.433 ACRES  
TOTAL = ± 8.139 ACRES

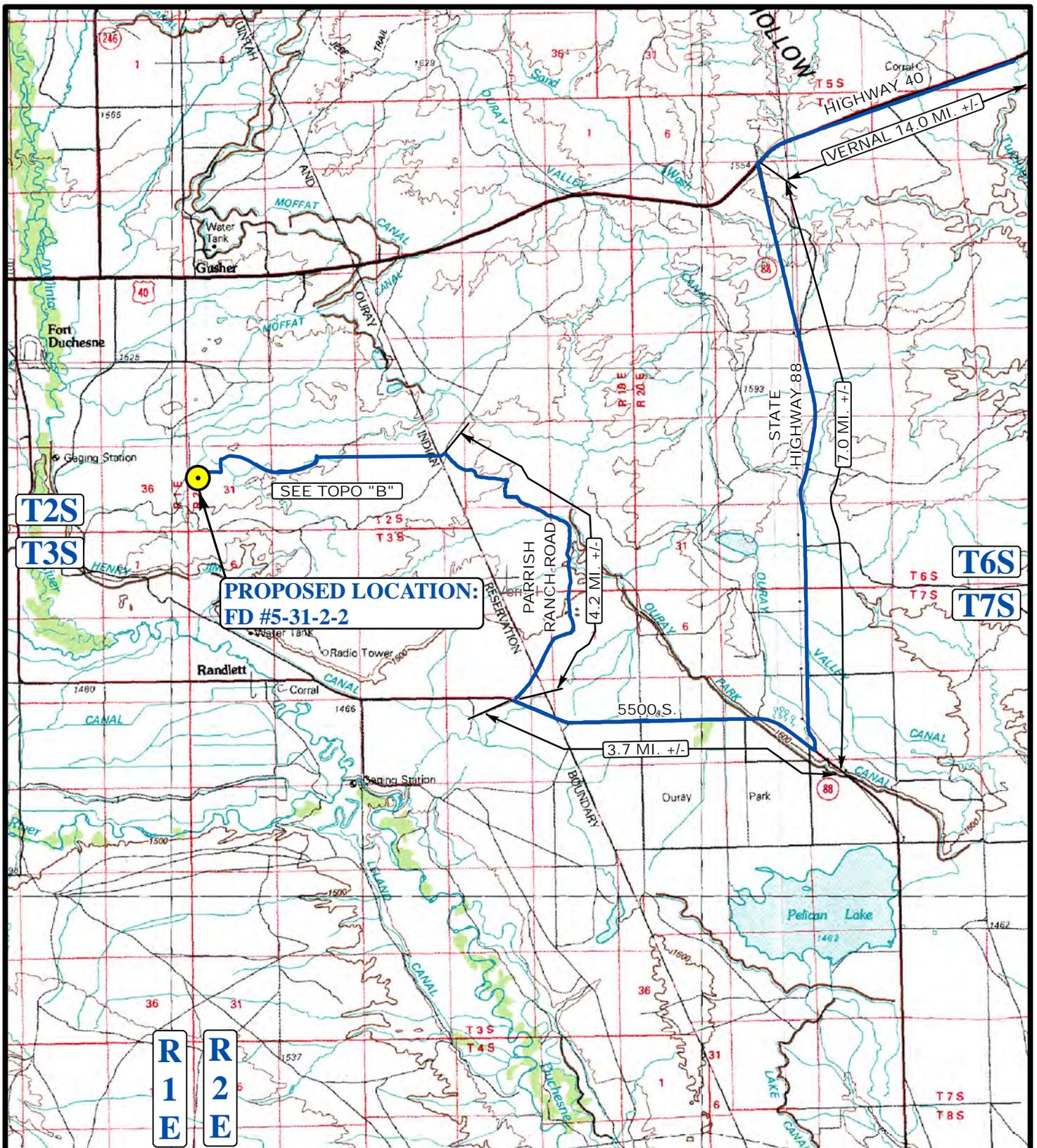
\* NOTE:  
FILL QUANTITY INCLUDES  
5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping	=	2,360 Cu. Yds.
Remaining Location	=	8,860 Cu. Yds.
TOTAL CUT	=	11,220 CU. YDS.
FILL	=	5,930 CU. YDS.

EXCESS MATERIAL	=	5,290 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	5,290 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	=	0 Cu. Yds.

**UINTAH ENGINEERING & LAND SURVEYING**  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017



**LEGEND:**

PROPOSED LOCATION

**BILL BARRETT CORPORATION**

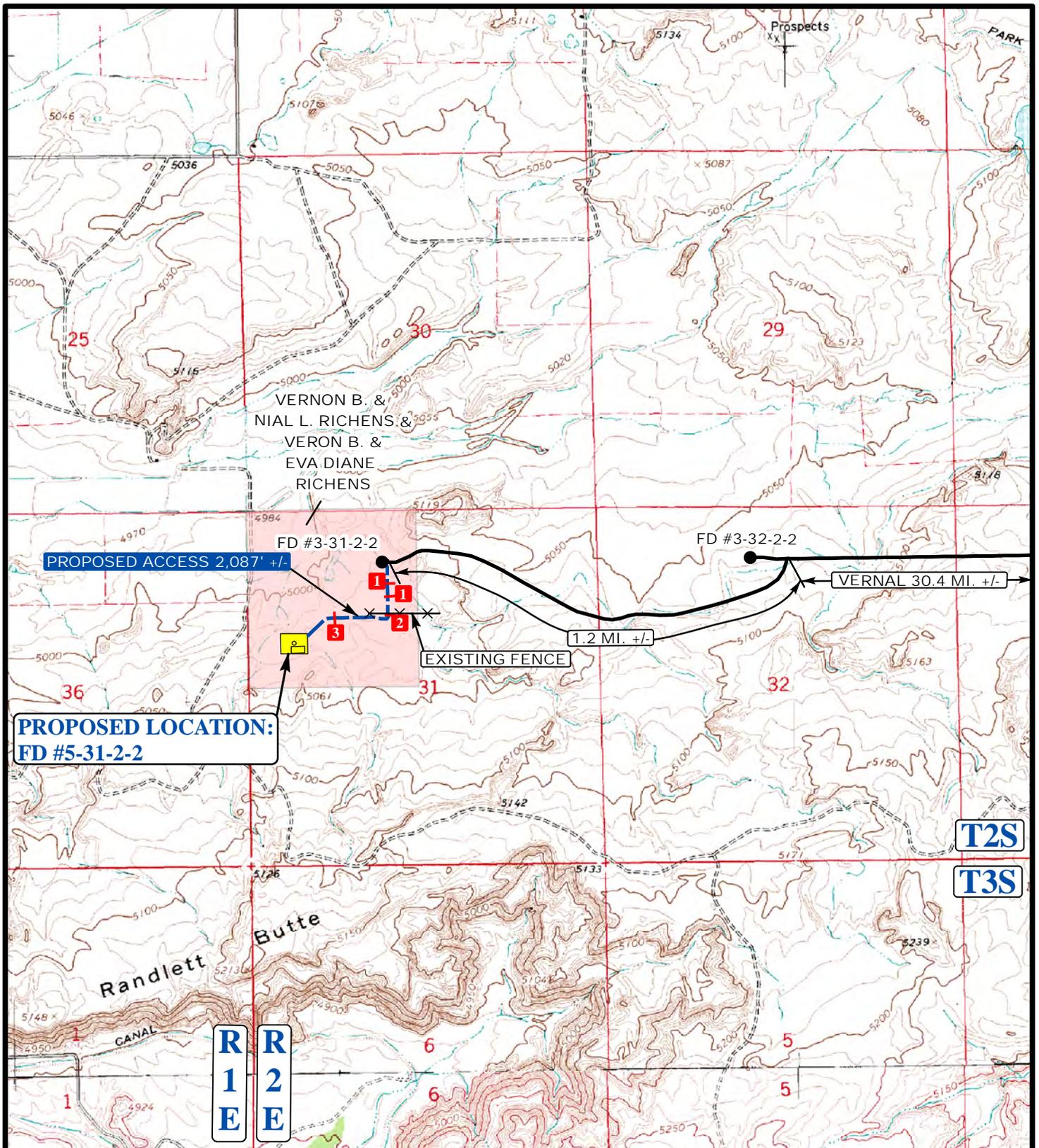
**FD #5-31-2-2**  
**SECTION 31, T2S, R2E, U.S.B.&M.**  
**1980' FNL 680' FWL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



<b>ACCESS ROAD MAP</b>	<b>08</b>	<b>19</b>	<b>13</b>	
	MONTH	DAY	YEAR	
SCALE: 1:100,000	DRAWN BY: S.O.		REV: 11-21-13 J.M.C.	



**LEGEND:**

- EXISTING ROADS
- PROPOSED ACCESS ROAD
- EXISTING FENCE
- 18" CMP REQUIRED
- INSTALL CATTLEGUARD
- 24" CMP REQUIRED



**Utah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



**BILL BARRETT CORPORATION**

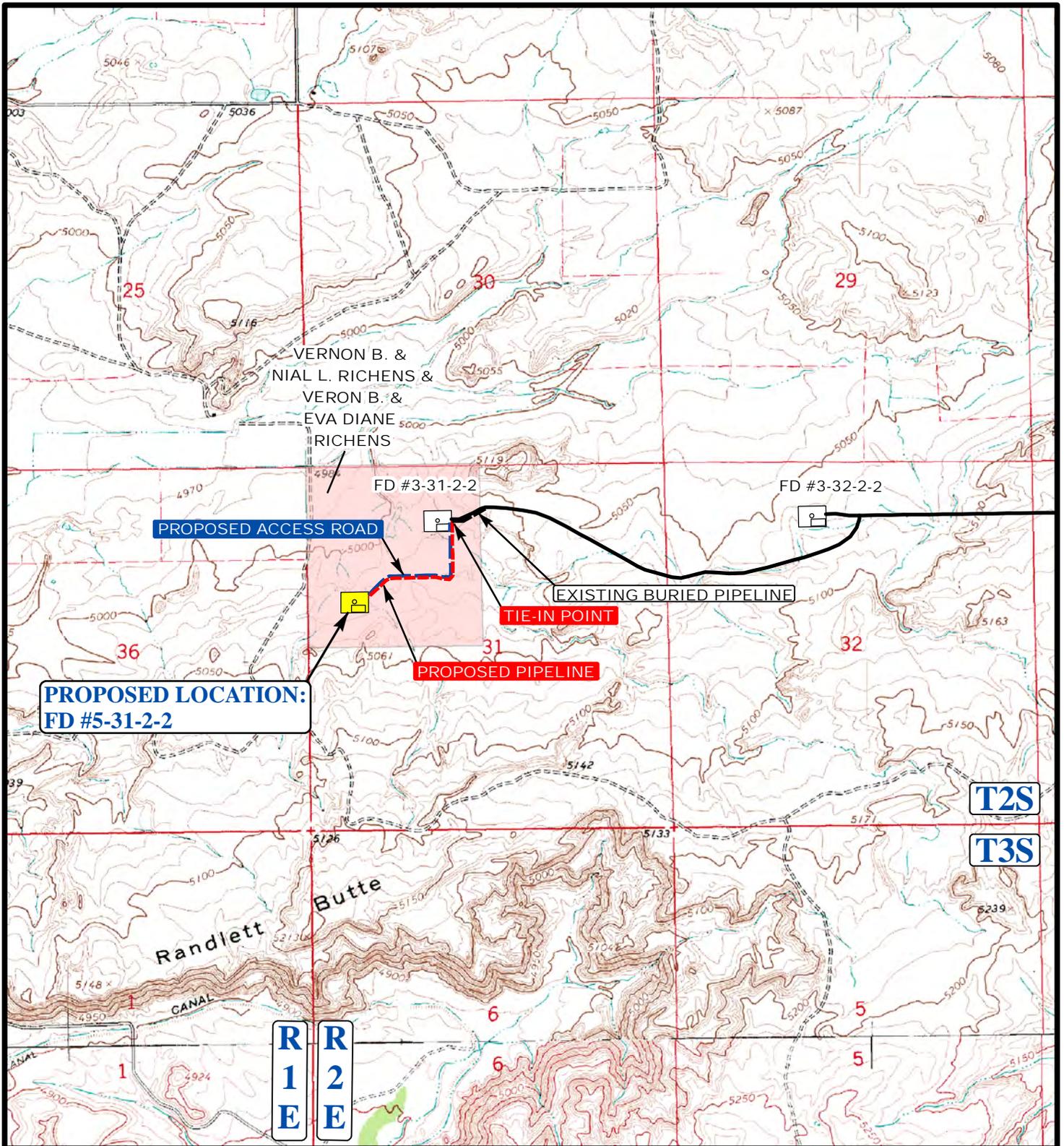
**FD #5-31-2-2**  
**SECTION 31, T2S, R2E, U.S.B.&M.**  
**1980' FNL 680' FWL**

**ACCESS ROAD**  
**MAP**

**08 19 13**  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: S.O. REV: 11-21-13 J.M.C.





**APPROXIMATE TOTAL PIPELINE DISTANCE = 2,154' +/-**

**LEGEND:**

- EXISTING ROADS
- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE



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 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



**BILL BARRETT CORPORATION**

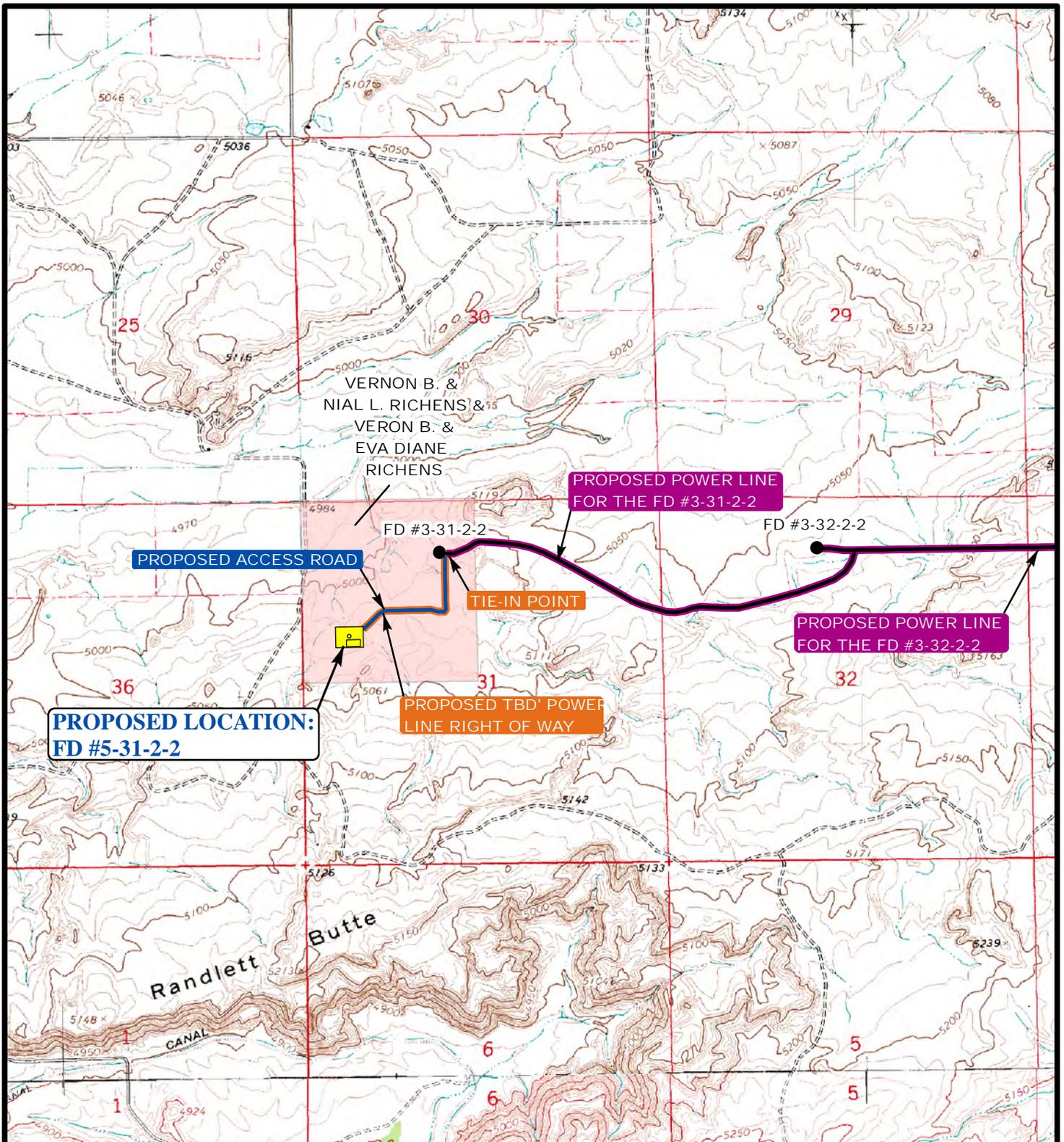
**FD #5-31-2-2**  
**SECTION 31, T2S, R2E, U.S.B.&M.**  
**1980' FNL 680' FWL**

**TOPOGRAPHIC MAP**

**08 19 13**  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: S.O. REV: 11-21-13 J.M.C.





**APPROXIMATE TOTAL POWER LINE DISTANCE 2,087' +/-**

**LEGEND:**

- PROPOSED ACCESS ROAD
- - - - - EXISTING POWER LINE
- PROPOSED POWER LINE
- PROPOSED POWER LINE (SERVICING OTHER WELLS)



**Utah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



**BILL BARRETT CORPORATION**

**FD #5-31-2-2**  
**SECTION 31, T2S, R2E, U.S.B.&M.**  
**1980' FNL 680' FWL**

**TOPOGRAPHIC**  
**MAP**

<b>08</b>	<b>19</b>	<b>13</b>
MONTH	DAY	YEAR

SCALE: 1" = 2000' DRAWN BY: S.O. REV: 11-21-13 J.M.C.



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> fee
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>8. WELL NAME and NUMBER:</b> FD 5-31-2-2
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. API NUMBER:</b> 43047540660000
<b>PHONE NUMBER:</b> 303 312-8134 Ext		<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1980 FNL 0680 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 31 Township: 02.0S Range: 02.0E Meridian: U		<b>COUNTY:</b> UINTAH
		<b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 1/6/2014	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="change to drilling plan"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Bill Barrett Corporation is requesting permission to revise the drilling plan for this well: Surface casing set depth: 1200'; Surface casing description: 8-5/8" 24# J55 STC (Hole size remains at 12-1/4" hole); Surface cement volumes: 160 sx 11.0 ppg lead (75% excess) 270 sx 14.8 ppg tail (75% excess); Production Hole and Casing size remains the same; Production grade changing to: P-110 OR I-80.

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Date:** January 09, 2014

**By:** *D. K. Duff*

<b>NAME (PLEASE PRINT)</b> Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 1/6/2014	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
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		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>	
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b>	
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>8. WELL NAME and NUMBER:</b> FD 5-31-2-2	
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. API NUMBER:</b> 43047540660000	
<b>PHONE NUMBER:</b> 303 312-8134 Ext		<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1980 FNL 0680 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 31 Township: 02.0S Range: 02.0E Meridian: U		<b>COUNTY:</b> UINTAH	
		<b>STATE:</b> UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 1/25/2014  <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
This well was spud on 1/25/14 at approximately 9:45 am by Triple A Drilling, Rig #TA 4037, Rig Type Soilmec SR/30.			
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 28, 2014</b>			
<b>NAME (PLEASE PRINT)</b> Venessa Langmacher	<b>PHONE NUMBER</b> 303 312-8172	<b>TITLE</b> Senior Permit Analyst	
<b>SIGNATURE</b> N/A		<b>DATE</b> 1/27/2014	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
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	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: FD 5-31-2-2
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43047540660000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8134 Ext
	9. FIELD and POOL or WILDCAT: WILDCAT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1980 FNL 0680 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 31 Township: 02.0S Range: 02.0E Meridian: U	COUNTY: UINTAH
	STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 2/28/2014	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Attached is the February 2014 Drilling Activity for this well.

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY  
 March 03, 2014**

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 3/3/2014	

**FD 05-31-2-2 2/14/2014 00:00 - 2/14/2014 18:00**

API 43-047-54066	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status	Total Depth (ftKB) 1,243.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
00:00	18.00	18:00	2	DRILL ACTUAL	R/U - DRILL 12 1/4 FROM 80' TO 1230' - CIRC - T.O.O.H. - R/U & RUN 8 5/8 CSG - CIRC - CEMENT - R/D

**FD 05-31-2-2 2/5/2014 05:45 - 2/6/2014 05:45**

API 43-047-54066	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status	Total Depth (ftKB) 1,243.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com

**FD 05-31-2-2 2/24/2014 13:00 - 2/25/2014 06:00**

API 43-047-54066	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status	Total Depth (ftKB) 1,243.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
13:00	5.00	18:00	14	NIPPLE UP B.O.P	NIPPLE UP B.O.P.
18:00	3.50	21:30	15	TEST B.O.P	TEST LOWER KELLY VALVE, SAFETY VALVE, PIPE RAMS INSIDE VALVES, HCR, OUTSIDE KILL LINE VALVES, CHOKE LINE, CHECK VALVE, UPRIGHT GAGE VALVE, BLIND RAMS, AND INSIDE MANIFOLD VALVES ALL TO 5000PSI FOR 10 MIN. - TEST ANNULAR TO 1500PSI - SUPER CHOKE 500PSI 5MIN. - TEST CSG TO 2000PSI FOR 30MIN. TESTED USING B&C QUICK TEST.
21:30	2.00	23:30	14	NIPPLE UP B.O.P	SET UP CHOKE HOUSE, SET UP PIPE RACKS, STRAP BHA
23:30	1.50	01:00	20	DIRECTIONAL WORK	MAKE UP BIT, MAKE UP DIR. TOOLS
01:00	1.50	02:30	6	TRIPS	TIH AND TAG CEMENT @ 1125'
02:30	1.50	04:00	9	CUT OFF DRILL LINE	SLIP AND CUT 90' OF DRILL LINE
04:00	2.00	06:00	2	DRILL ACTUAL	DRILL OUT FLOAT AND SHOE TO 1243'

**FD 05-31-2-2 2/25/2014 06:00 - 2/26/2014 06:00**

API 43-047-54066	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status	Total Depth (ftKB) 1,243.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	2	DRILL ACTUAL	PUMPED PILL AT WRONG DEPTH, DRILL ACTUAL F/1243' - 1263'
06:30	0.50	07:00	5	COND MUD & CIRC	TOP DRIVE BROKE ABOVE CUSHION SUB, HAD TO DRILL JOINT DOWN.
07:00	0.50	07:30	2	DRILL ACTUAL	DRILL ACTUAL F/1263' - T/1294'
07:30	0.50	08:00	21	OPEN	PUMP LCM PILL @ 1294', PULL INTO CASING, RUN EMW TEST, 156 PSI FOR 5 MIN. LOST 5 PSI, MW 8.5, EMW 10.5, PSI SHOULD HAVE BEEN 135 PSI, AS CLOSE AS POSSIBLE WITH RIG PUMP.
08:00	4.00	12:00	2	DRILL ACTUAL	DRILL ACTUAL F/1294' - T/1968' - 674' @ 168.5'/HR. WOB = 8-16K, 50-65RPM
12:00	0.50	12:30	7	LUBRICATE RIG	RIG SERVICE
12:30	17.50	06:00	2	DRILL ACTUAL	DRILL ACTUAL F/1968' - T/4454' - 2486' @ 142'/HR. WOB = 12-18K, 55-70 RPM

**FD 05-31-2-2 2/26/2014 06:00 - 2/27/2014 06:00**

API 43-047-54066	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status	Total Depth (ftKB) 1,243.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	23.50	05:30	2	DRILL ACTUAL	DRILL ACTUAL F/4454 T/ 5575 - WT ON BIT 22-26K - 50-70RPM - 550GPM - 200-250 DIFF PSI - 9-11K TORQUE ON BOTTOM 7K OFF BOTTOM - SPP 2054
05:30	0.50	06:00	7	LUBRICATE RIG	RIG SERVICE - REPAIR LEAKING HOSE ON SWIVAL PUMP

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
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	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: FD 5-31-2-2
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43047540660000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8134 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1980 FNL 0680 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 31 Township: 02.0S Range: 02.0E Meridian: U	9. FIELD and POOL or WILDCAT: WILDCAT
	COUNTY: UINTAH
	STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 3/31/2014	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Attached is the March 2014 Drilling Activity for this well.

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY  
 April 02, 2014**

NAME (PLEASE PRINT) Christina Hirtler	PHONE NUMBER 303 312-8597	TITLE Administrative Assistant
SIGNATURE N/A	DATE 4/2/2014	

**FD 05-31-2-2 3/1/2014 06:00 - 3/2/2014 06:00**

API 43-047-54066	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 1,243.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.00	17:00	2	DRILL ACTUAL	DRILL ACTUAL F/6575 T/ 6731 - WT ON BIT 30K - 50-70RPM - 527GPM - 200-250 DIFF PSI - 9-11K TORQUE ON BOTTOM 7K OFF BOTTOM - SPP 2200
17:00	0.50	17:30	7	LUBRICATE RIG	RIG SERVICE
17:30	1.00	18:30	5	COND MUD & CIRC	PUMP 50BBL SWEEP & CIRCULATE SHAKERS CLEAN - BUILD SLUG - FLOW CHECK - PUMP SLUG
18:30	6.00	00:30	6	TRIPS	T.O.O.H. F/ 6731 T/ 180 - TIGHT 6500-6480 & 3157 - MAX 40K OVER @ 6500 - FILL HOLE CONTINUOUSLY WITH TRIP TANK 47BBLs - FUNCTION TEST ANNULAR PIPE & BLIND RAMS - B.O.P. DRILL HELD DURING T.O.O.H. CREW READY UNDER 2MIN.
00:30	1.00	01:30	20	DIRECTIONAL WORK	PULL MWD - DROP PONY SUB & EXTRA BATTERY PACK - BREAK BIT - L/D MUD MOTOR & M/U NEW - FUNCTION TEST TOOL
01:30	4.50	06:00	6	TRIPS	T.I.H. - FILL @ SHOE & 4000'

**FD 05-31-2-2 3/1/2014 06:00 - 3/2/2014 06:00**

API 43-047-54066	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 1,243.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.00	17:00	2	DRILL ACTUAL	DRILL ACTUAL F/6575 T/ 6731 - WT ON BIT 30K - 50-70RPM - 527GPM - 200-250 DIFF PSI - 9-11K TORQUE ON BOTTOM 7K OFF BOTTOM - SPP 2200
17:00	0.50	17:30	7	LUBRICATE RIG	RIG SERVICE
17:30	1.00	18:30	5	COND MUD & CIRC	PUMP 50BBL SWEEP & CIRCULATE SHAKERS CLEAN - BUILD SLUG - FLOW CHECK - PUMP SLUG
18:30	6.00	00:30	6	TRIPS	T.O.O.H. F/ 6731 T/ 180 - TIGHT 6500-6480 & 3157 - MAX 40K OVER @ 6500 - FILL HOLE CONTINUOUSLY WITH TRIP TANK 47BBLs - FUNCTION TEST ANNULAR PIPE & BLIND RAMS - B.O.P. DRILL HELD DURING T.O.O.H. CREW READY UNDER 2MIN.
00:30	1.00	01:30	20	DIRECTIONAL WORK	PULL MWD - DROP PONY SUB & EXTRA BATTERY PACK - BREAK BIT - L/D MUD MOTOR & M/U NEW - FUNCTION TEST TOOL
01:30	4.50	06:00	6	TRIPS	T.I.H. - FILL @ SHOE & 4000'

**FD 05-31-2-2 3/2/2014 06:00 - 3/3/2014 06:00**

API 43-047-54066	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 1,243.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.50	07:30	6	TRIPS	CONT. T.I.H. F/ 5500 T/ 6729
07:30	0.50	08:00	5	COND MUD & CIRC	B/U WAS NEAR SURFACE AFTER REAMING LAST 100' TO BOTTOM - CIRCULATED OUT
08:00	15.50	23:30	2	DRILL ACTUAL	DRILL ACTUAL F/6729 T/ 7366 - WT ON BIT 12K - 50-70RPM - 527GPM - 200-250 DIFF PSI - 9-11K TORQUE ON BOTTOM 7K OFF BOTTOM - SPP 2400 - GOING THROUGH GAS BUSTER F/ 7220 T/ 7366
23:30	0.50	00:00	7	LUBRICATE RIG	RIG SERVICE
00:00	3.50	03:30	5	COND MUD & CIRC	CIRCULATE WHILE WIGHTING UP F/ 9.1 T/ 9.7 TO KILL OIL & GAS - BEGINNING TO LOSE MUD @ 9.7 M.W. OIL STILL FLOWING
03:30	2.50	06:00	2	DRILL ACTUAL	MUD HOLDING @ 9.5 RESUME DRILLING OPERATIONS - MIXING LCM 30SXS/HR - STILL GOING THROUGH GAS BUSTER

**FD 05-31-2-2 3/2/2014 06:00 - 3/3/2014 06:00**

API 43-047-54066	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 1,243.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.50	07:30	6	TRIPS	CONT. T.I.H. F/ 5500 T/ 6729
07:30	0.50	08:00	5	COND MUD & CIRC	B/U WAS NEAR SURFACE AFTER REAMING LAST 100' TO BOTTOM - CIRCULATED OUT
08:00	15.50	23:30	2	DRILL ACTUAL	DRILL ACTUAL F/6729 T/ 7366 - WT ON BIT 12K - 50-70RPM - 527GPM - 200-250 DIFF PSI - 9-11K TORQUE ON BOTTOM 7K OFF BOTTOM - SPP 2400 - GOING THROUGH GAS BUSTER F/ 7220 T/ 7366
23:30	0.50	00:00	7	LUBRICATE RIG	RIG SERVICE

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
00:00	3.50	03:30	5	COND MUD & CIRC	CIRCULATE WHILE WIGHTING UP F/ 9.1 T/ 9.7 TO KILL OIL & GAS - BEGINNING TO LOSE MUD @ 9.7 M.W. OIL STILL FLOWING
03:30	2.50	06:00	2	DRILL ACTUAL	MUD HOLDING @ 9.5 RESUME DRILLING OPERATIONS - MIXING LCM 30SXS/HR - STILL GOING THROUGH GAS BUSTER

**FD 05-31-2-2 3/3/2014 06:00 - 3/4/2014 06:00**

API 43-047-54066	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 1,243.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	22.50	04:30	2	DRILL ACTUAL	DRILL ACTUAL F/7450 T/ 8950 - WT ON BIT 12-18 - 50-70RPM - 485GPM - 250-300 DIFF PSI - 10-12K TORQUE ON BOTTOM 7K OFF BOTTOM - SPP 2550 - STILL GOING THROUGH GAS BUSTER
04:30	0.50	05:00	7	LUBRICATE RIG	RIG SERVICE
05:00	1.00	06:00	20	DIRECTIONAL WORK	POWER DOWN MWD TOOL FROM MAX POWER 7808 6-4 - 8272 4-3 LOW POWER

**FD 05-31-2-2 3/3/2014 06:00 - 3/4/2014 06:00**

API 43-047-54066	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 1,243.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	22.50	04:30	2	DRILL ACTUAL	DRILL ACTUAL F/7450 T/ 8950 - WT ON BIT 12-18 - 50-70RPM - 485GPM - 250-300 DIFF PSI - 10-12K TORQUE ON BOTTOM 7K OFF BOTTOM - SPP 2550 - STILL GOING THROUGH GAS BUSTER
04:30	0.50	05:00	7	LUBRICATE RIG	RIG SERVICE
05:00	1.00	06:00	20	DIRECTIONAL WORK	POWER DOWN MWD TOOL FROM MAX POWER 7808 6-4 - 8272 4-3 LOW POWER

**FD 05-31-2-2 3/4/2014 06:00 - 3/5/2014 06:00**

API 43-047-54066	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 1,243.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	18.00	00:00	2	DRILL ACTUAL	DRILL F/ 8950 T/ 9230 T.D.
00:00	3.00	03:00	5	COND MUD & CIRC	CIRCULATE & BUILD VOLUME STARTED LOOSING MUD @ 9.7M.W.
03:00	1.00	04:00	7	LUBRICATE RIG	RIG SERVICE
04:00	2.00	06:00	5	COND MUD & CIRC	CIRCULATE BUILD KILL PILL AND SLUG FOR SHORT TRIP

**FD 05-31-2-2 3/4/2014 06:00 - 3/5/2014 06:00**

API 43-047-54066	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 1,243.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	18.00	00:00	2	DRILL ACTUAL	DRILL F/ 8950 T/ 9230 T.D.
00:00	3.00	03:00	5	COND MUD & CIRC	CIRCULATE & BUILD VOLUME STARTED LOOSING MUD @ 9.7M.W.
03:00	1.00	04:00	7	LUBRICATE RIG	RIG SERVICE
04:00	2.00	06:00	5	COND MUD & CIRC	CIRCULATE BUILD KILL PILL AND SLUG FOR SHORT TRIP

**FD 05-31-2-2 3/5/2014 06:00 - 3/6/2014 06:00**

API 43-047-54066	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 1,243.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	5	COND MUD & CIRC	FLOW CHECK / CIRCULATE B/U
07:00	3.50	10:30	6	TRIPS	WIPER TRIP T/ 7000'
10:30	4.50	15:00	5	COND MUD & CIRC	CIRCULATE MIXING LCM TO PREVENT LOSSES & HELP CARRY OIL OUT OF PITS - ABLE TO RAISE M.W. TO 9.9 WITHOUT LOSSES
15:00	1.50	16:30	5	COND MUD & CIRC	BUILD ECD PILL TO SPOT ABOVE PRODUCING ZONE - PUMP 80BBL ECD PILL & PLACE FROM 6500' UP TO 4580' - BUILD SLUG WHILE PUMPING ECD PILL & CHASE ECD PILL WITH SLUG
16:30	8.00	00:30	6	TRIPS	T.O.O.H. F/ 9230 T/ 180 - FILL HOLE CONTINUOUSLY WITH ACTIVE SYSTEM 62BBLs - FUNCTION ANNULAR
00:30	1.50	02:00	20	DIRECTIONAL WORK	PULL MWD TOOL - BREAK BIT & L/D M/M -



Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
02:00	4.00	06:00	6	TRIPS	T.I.H. OPEN ENDED F/ 0 T/6500	

**FD 05-31-2-2 3/5/2014 06:00 - 3/6/2014 06:00**

API 43-047-54066	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 1,243.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	1.00	07:00	5	COND MUD & CIRC	FLOW CHECK / CIRCULATE B/U	
07:00	3.50	10:30	6	TRIPS	WIPER TRIP T/ 7000'	
10:30	4.50	15:00	5	COND MUD & CIRC	CIRCULATE MIXING LCM TO PREVENT LOSSES & HELP CARRY OIL OUT OF PITS - ABLE TO RAISE M.W. TO 9.9 WITHOUT LOSSES	
15:00	1.50	16:30	5	COND MUD & CIRC	BUILD ECD PILL TO SPOT ABOVE PRODUCING ZONE - PUMP 80BBL ECD PILL & PLACE FROM 6500' UP TO 4580' - BUILD SLUG WHILE PUMPING ECD PILL & CHASE ECD PILL WITH SLUG	
16:30	8.00	00:30	6	TRIPS	T.O.O.H. F/ 9230 T/ 180 - FILL HOLE CONTINUOUSLY WITH ACTIVE SYSTEM 62BBLs - FUNCTION ANNULAR	
00:30	1.50	02:00	20	DIRECTIONAL WORK	PULL MWD TOOL - BREAK BIT & L/D M/M -	
02:00	4.00	06:00	6	TRIPS	T.I.H. OPEN ENDED F/ 0 T/6500	

**FD 05-31-2-2 3/6/2014 06:00 - 3/7/2014 06:00**

API 43-047-54066	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 1,243.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	0.50	06:30	7	LUBRICATE RIG	RIG SERVICE	
06:30	4.50	11:00	6	TRIPS	CONT. T.I.H.	
11:00	2.50	13:30	5	COND MUD & CIRC	CIRCULATE B/U - LOTS OF OIL - HAD TO DUMP ALL RETURNS - PUMPED UNTIL WE RAN OUT OF FLUID	
13:30	6.50	20:00	5	COND MUD & CIRC	ROTATED PIPE W/O PUMPS AND WORKED UP AND DOWN EVERY 10-15 MIN WHILE BUILDING ENOUGH 9.8 MUD WITH 20% LCM TO FILL ANNULUS & TANKS	
20:00	4.00	00:00	5	COND MUD & CIRC	CIRCULATE B/U - DUMPING RETURNS UNTIL WE GOT 9.0 MUD AT THE POSSUM BELLY - RAISE MUD WIEGHT UP TO 9.9PPG - PUMP 80BBL KILL PILL SAME AS THE PREVIOUS ONE PUMPED	
00:00	6.00	06:00	6	TRIPS	FLOW CHECK NEGATIVE - FILL HOLE CONTINUOUSLY W/ TRIP TANK 52BBLs	

**FD 05-31-2-2 3/6/2014 06:00 - 3/7/2014 06:00**

API 43-047-54066	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 1,243.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	0.50	06:30	7	LUBRICATE RIG	RIG SERVICE	
06:30	4.50	11:00	6	TRIPS	CONT. T.I.H.	
11:00	2.50	13:30	5	COND MUD & CIRC	CIRCULATE B/U - LOTS OF OIL - HAD TO DUMP ALL RETURNS - PUMPED UNTIL WE RAN OUT OF FLUID	
13:30	6.50	20:00	5	COND MUD & CIRC	ROTATED PIPE W/O PUMPS AND WORKED UP AND DOWN EVERY 10-15 MIN WHILE BUILDING ENOUGH 9.8 MUD WITH 20% LCM TO FILL ANNULUS & TANKS	
20:00	4.00	00:00	5	COND MUD & CIRC	CIRCULATE B/U - DUMPING RETURNS UNTIL WE GOT 9.0 MUD AT THE POSSUM BELLY - RAISE MUD WIEGHT UP TO 9.9PPG - PUMP 80BBL KILL PILL SAME AS THE PREVIOUS ONE PUMPED	
00:00	6.00	06:00	6	TRIPS	FLOW CHECK NEGATIVE - FILL HOLE CONTINUOUSLY W/ TRIP TANK 52BBLs	

**FD 05-31-2-2 3/7/2014 06:00 - 3/8/2014 06:00**

API 43-047-54066	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 1,243.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	1.00	07:00	6	TRIPS	CONT. T.O.O.H. - FUNCTION TEST ANNULAR PIPE & BLIND RAMS	
07:00	0.50	07:30	7	LUBRICATE RIG	RIG SERVICE	
07:30	12.50	20:00	12	RUN CASING & CEMENT	R/U TO RUN CSG - RUN 177JTS AR-80 17# 5 1/2 CSG+ 2 MARKERS & 94 CENTRALIZERS & 3 CEMENT BASKETS	
20:00	1.00	21:00	5	COND MUD & CIRC	CIRCULATE OUT GAS - DUMPED 150BBLs OF OIL BEFORE GETTING MUD AT POSSUM BELLYS	

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
21:00	2.00	23:00	12	RUN CASING & CEMENT	CONTINUE RUN CSG
23:00	3.00	02:00	5	COND MUD & CIRC	CIRCULATE AND CONDITION MUD - DUMPED 100BBLS OIL BEFORE GETTING GOOD MUD BACK
02:00	4.00	06:00	12	RUN CASING & CEMENT	R/U CEMENT EQUIPMENT & CEMENT (DETAILS TO FOLLOW)

**FD 05-31-2-2 3/7/2014 06:00 - 3/8/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-54066	Utah	Uintah	Fort Duchesne	COMPLETION	1,243.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	6	TRIPS	CONT. T.O.O.H. - FUNCTION TEST ANNULAR PIPE & BLIND RAMS
07:00	0.50	07:30	7	LUBRICATE RIG	RIG SERVICE
07:30	12.50	20:00	12	RUN CASING & CEMENT	R/U TO RUN CSG - RUN 177JTS AR-80 17# 5 1/2 CSG+ 2 MARKERS & 94 CENTRALIZERS & 3 CEMENT BASKETS
20:00	1.00	21:00	5	COND MUD & CIRC	CIRCULATE OUT GAS - DUMPED 150BBLS OF OIL BEFORE GETTING MUD AT POSSUM BELLYS
21:00	2.00	23:00	12	RUN CASING & CEMENT	CONTINUE RUN CSG
23:00	3.00	02:00	5	COND MUD & CIRC	CIRCULATE AND CONDITION MUD - DUMPED 100BBLS OIL BEFORE GETTING GOOD MUD BACK
02:00	4.00	06:00	12	RUN CASING & CEMENT	R/U CEMENT EQUIPMENT & CEMENT (DETAILS TO FOLLOW)

**FD 05-31-2-2 3/8/2014 06:00 - 3/9/2014 12:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-54066	Utah	Uintah	Fort Duchesne	COMPLETION	1,243.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.00	12:00	1	RIGUP & TEARDOWN	CLEAN TANKS - TOOK LONGER THAN USUAL DUE TO THE LARGE AMOUNTS OF CRUDE OIL

**FD 05-31-2-2 3/8/2014 06:00 - 3/9/2014 12:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-54066	Utah	Uintah	Fort Duchesne	COMPLETION	1,243.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.00	12:00	1	RIGUP & TEARDOWN	CLEAN TANKS - TOOK LONGER THAN USUAL DUE TO THE LARGE AMOUNTS OF CRUDE OIL

**FD 05-31-2-2 3/11/2014 06:00 - 3/12/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-54066	Utah	Uintah	Fort Duchesne	COMPLETION	1,243.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION. CLEAN CELLAR. HSM. CHECK PRESSURE. ND 11" NIGHT CAP. CLEAN CSG HANGER. NU 7" 5K TBG HEAD. PRES TEST. GOOD. NU 7" NIGHT CAP.

**FD 05-31-2-2 3/11/2014 06:00 - 3/12/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-54066	Utah	Uintah	Fort Duchesne	COMPLETION	1,243.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION. CLEAN CELLAR. HSM. CHECK PRESSURE. ND 11" NIGHT CAP. CLEAN CSG HANGER. NU 7" 5K TBG HEAD. PRES TEST. GOOD. NU 7" NIGHT CAP.

**FD 05-31-2-2 3/12/2014 06:00 - 3/13/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-54066	Utah	Uintah	Fort Duchesne	COMPLETION	1,243.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	LOGG	Logging	HSM. MIRU HES. RUN GR/JB AND TAG FILL AT 9026', DRLG REPORT SHOWS FC AT 9125' (99' FILL). RUN RMT/RBL LOG UNDER PRESSURE. RUN REPEAT 9026'-8790'. LOG SHOWS GOOD CMT 9026'-6650'. GOOD CMT WITH RATTY SPOTS 6650'-4900'. FAIR CMT WITH RATTY SPOTS 4900'-3450'. RATTY CMT 3450'-2800'. EST TOC 2800'. SJ 7612'-7636' AND 8430'-8456'. RDMO HES.

**FD 05-31-2-2 3/12/2014 06:00 - 3/13/2014 06:00**

API 43-047-54066	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 1,243.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	LOGG	Logging	HSM. MIRU HES. RUN GR/JB AND TAG FILL AT 9026', DRLG REPORT SHOWS FC AT 9125' (99' FILL). RUN RMT/RBL LOG UNDER PRESSURE. RUN REPEAT 9026'-8790'. LOG SHOWS GOOD CMT 9026'-6650'. GOOD CMT WITH RATTY SPOTS 6650'-4900'. FAIR CMT WITH RATTY SPOTS 4900'-3450'. RATTY CMT 3450'-2800'. EST TOC 2800'. SJ 7612'-7636' AND 8430'-8456'. RDMO HES.

**FD 05-31-2-2 3/18/2014 06:00 - 3/19/2014 06:00**

API 43-047-54066	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 1,243.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION. FRAC LINE SET AND FULL. ND NIGHT CAP. NU 5" 10K FRAC MANDREL, FRAC VALVES, FRAC HEAD. HOOK UP FB EQUIP. PRES TEST CSG AND VALVES TO 6200 PSI. PRES TEST FB EQUIP TO 4000 PSI. GOOD. WELL SECURE.  FUEL REPORT CANARY- DIESEL 45 GAL. DELSCO DIESEL 20 GAL
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION. FRAC LINE SET AND FULL. ND NIGHT CAP. NU 5" 10K FRAC MANDREL, FRAC VALVES, FRAC HEAD. HOOK UP FB EQUIP. PRES TEST CSG AND VALVES TO 6200 PSI. PRES TEST FB EQUIP TO 4000 PSI. GOOD. WELL SECURE.  FUEL REPORT CANARY- DIESEL 45 GAL. DELSCO DIESEL 20 GAL

**FD 05-31-2-2 3/18/2014 06:00 - 3/19/2014 06:00**

API 43-047-54066	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 1,243.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION. FRAC LINE SET AND FULL. ND NIGHT CAP. NU 5" 10K FRAC MANDREL, FRAC VALVES, FRAC HEAD. HOOK UP FB EQUIP. PRES TEST CSG AND VALVES TO 6200 PSI. PRES TEST FB EQUIP TO 4000 PSI. GOOD. WELL SECURE.  FUEL REPORT CANARY- DIESEL 45 GAL. DELSCO DIESEL 20 GAL

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> fee
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>8. WELL NAME and NUMBER:</b> FD 5-31-2-2
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. API NUMBER:</b> 43047540660000
<b>PHONE NUMBER:</b> 303 312-8134 Ext		<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1980 FNL 0680 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 31 Township: 02.0S Range: 02.0E Meridian: U		<b>COUNTY:</b> UINTAH
		<b>STATE:</b> UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 4/20/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This well had first production on 4/20/2014 and first gas sales on  
4/21/2014

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
April 24, 2014**

<b>NAME (PLEASE PRINT)</b> Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 4/21/2014	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: fee
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: FD 5-31-2-2
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43047540660000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8134 Ext
	9. FIELD and POOL or WILDCAT: WILDCAT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1980 FNL 0680 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 31 Township: 02.0S Range: 02.0E Meridian: U	COUNTY: UINTAH
	STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 4/30/2014	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Attached is the April 2014 Drilling Activity for this well.

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 May 06, 2014

NAME (PLEASE PRINT) Christina Hirtler	PHONE NUMBER 303 312-8597	TITLE Administrative Assistant
SIGNATURE N/A	DATE 5/6/2014	

**FD 05-31-2-2 4/17/2014 06:00 - 4/18/2014 06:00**

API 43-047-54066	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 1,243.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM.	
07:00	1.50	08:30	SRIG	Rig Up/Down	SPOT AND RU CASED HOLE SOLUTIONS W/ 5K LUBE.	
08:30	1.00	09:30	PFRT	Perforating	PU PERF GUNS FOR STG 1. OPEN WITH 0 PSI. RIH AND CORRELATE TO SJ AT 8430'-8454'. RUN DOWN AND PERF UTELAND BUTTE AND CASTLE PEAK FORM 8711'-8989' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN AND SECURE WELL.	
09:30	5.50	15:00	SRIG	Rig Up/Down	MIRU HES FRAC FLEET.	
15:00	15.00	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE FOR NIGHT.	

**FD 05-31-2-2 4/18/2014 06:00 - 4/19/2014 06:00**

API 43-047-54066	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 1,243.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	0.25	06:15	SMTG	Safety Meeting	AOL 05:00. PRIME UP CHEMS AND PUMPS. QC FLUIDS. PRESSURE TEST. HSM-SMOKING, RED ZONE, PPE, PERF GUNS, MUSTER AREA.	
06:15	1.25	07:30	FRAC	Frac. Job	FRAC STG 1 PRESSURE TEST LINES TO 7300 PSI. OPEN WELL W/ 441 PSI AT 06:17 BREAK DOWN 3158 PSI AT 5.7 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.1 BPM AT 2735 PSI. FLUSH W/ 8505 GAL. 29.8 BPM AT 3191 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.4 BPM AT 4085 PSI. ISDP 2792. FG .75. PERFS OPEN 39/45  ISIP 3108, FG .79, MR 70.5 BPM, AR 70.1 BPM, MP 4281 PSI, AP 3821 PSI 100 MESH 7100 lbs. .75 ppg 20/40 WHITE 140,400 lbs 2.0, 2.0-5.0 RAMP, 5.0 ppg SLK WTR 1146 BBL, 20# HYBOR G (16) 1429 BBL, BTR 2680 BBLs  SHUT IN AND TURN OVER TO CASED HOLE.	
07:30	2.00	09:30	PFRT	Perforating	PERF STG #2- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 2 INTO LUBE AND EQUALIZE 2600 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 8430'-8454'. RUN DOWN AND SET 5-1/2" CBP AT 8692' WITH 2400 PSI. PULL UP AND PERF DOUGLAS CREEK, BLACK SHALE AND CASTLE PEAK 8383'-8672' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 2000 PSI. TURN WELL OVER TO HES.	
09:30	1.17	10:40	FRAC	Frac. Job	FRAC STG 2 PRESSURE TEST LINES TO 7400 PSI. OPEN WELL W/ 2140 PSI AT 09:34 BREAK DOWN 2606 PSI AT 5.0 BPM. PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.2 BPM AT 2650 PSI. FLUSH W/ 8185 GAL. 30.1 BPM AT 3159 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 71.0 BPM AT 4888 PSI. ISDP 2846. FG .77. PERFS OPEN 32/45  ISIP 3050, FG .80, MR 70.1 BPM, AR 70.0 BPM, MP 4414 PSI, AP 4010 PSI 100 MESH 8200 lbs. .75 ppg 20/40 WHITE 150,200 lbs 2.0, 2.0-5.0 RAMP, 5.0 ppg SLK WTR 1042 BBL, 20# HYBOR G (16) 1497 BBL, BTR 2631 BBLs  SHUT IN AND TURN OVER TO CASED HOLE.	
10:40	1.33	12:00	PFRT	Perforating	PERF STG #3- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 3 INTO LUBE AND EQUALIZE 2500 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7612'-7635'. RUN DOWN AND SET 5-1/2" CBP AT 8354' WITH 2400 PSI. PULL UP AND PERF DOUGLAS CREEK FORM 8059'-8334' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 2200 PSI. TURN WELL OVER TO HES.	



Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
12:00	1.25	13:15	FRAC	Frac. Job	FRAC STG 3 PRESSURE TEST LINES TO 7300 PSI. OPEN WELL W/ 1863 PSI AT 12:08 BREAK DOWN 2506 PSI AT 7.2 BPM. PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.3 BPM AT 2468 PSI. FLUSH W/ 7869 GAL. 30.0 BPM AT 3080 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.5 BPM AT 5015 PSI. ISDP 2700. FG .77. PERFS OPEN 24/45  ISIP 2850, FG .79, MR 70.5 BPM, AR 70.0 BPM, MP 4698 PSI, AP 3960 PSI 100 MESH 8200 lbs. .75 ppg 20/40 WHITE 150.600 lbs 2.0, 2.0-5.0 RAMP, 5.0 ppg SLK WTR 1056 BBL, 20# HYBOR G (16) 1543 BBL, BTR 2692 BBLS  SHUT IN AND TURN OVER TO CASED HOLE.
13:15	1.25	14:30	PFRT	Perforating	PERF STG #4- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 4 INTO LUBE AND EQUALIZE 2550 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7612'-7635'. RUN DOWN AND SET 5-1/2" CBP AT 8051' WITH 2500 PSI. PULL UP AND PERF TGR3 AND DOUGLAS CREEK FORM 7701'-8031' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 1500 PSI. TURN WELL OVER TO HES.
14:30	1.75	16:15	FRAC	Frac. Job	FRAC STG 4 PRESSURE TEST LINES TO 7400 PSI. OPEN WELL W/ 1650 PSI AT 14:36 BREAK DOWN 2037 PSI AT 5.2 BPM. PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.3 BPM AT 1376 PSI. FLUSH W/ 7561 GAL. 30.5 BPM AT 1977 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 40.1 BPM AT 5340 PSI. ISDP 2250. FG .72. PERFS OPEN 10/45  ISIP 1635, FG .65, MR 70.3 BPM, AR 65.0 BPM, MP 5002 PSI, AP 3441 PSI 100 MESH 9900 lbs. .75 ppg 20/40 WHITE 159,300 lbs 2.0, 2.0-5.0 RAMP, 5.0 ppg SLK WTR 1063 BBL, 20# HYBOR G (16) 1674 BBL, BTR 2818 BBLS  SHUT IN AND TURN OVER TO CASED HOLE.
16:15	1.00	17:15	WLWK	Wireline	KILL PLUG- PU 5-1/2" EXELIS PLUG AND SETTING TOOLS INTO LUBE. EQUALIZE 1500 PSI. RIH AND CORRELATE TO CSG JTS (NO SHORT JT NOW). SET KILL PLUG AT 7601' WITH 1450 PSI. BLEED OFF AS POOH.
17:15	2.00	19:15	SRIG	Rig Up/Down	RDMO HES AND CASED HOLE. WELL SECURE.
19:15	10.75	06:00	LOCL	Lock Wellhead & Secure	STACK D/O TANK. SPOT PMP AND TANK. MOVE FRAC LINE OFF.

**FD 05-31-2-2 4/19/2014 06:00 - 4/20/2014 06:00**

API 43-047-54066	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 1,243.0	Primary Job Type Drilling & Completion
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Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL HOLD SAFETY MEETING.
07:00	2.00	09:00	SRIG	Rig Up/Down	MIRU RIG & EQUIPMENT.
09:00	3.00	12:00	BOPI	Install BOP's	N/D FRAC TREE. N/U BOPE. R/U FLOOR & EQUIPMENT. SPOT IN CATWALK & PIPE RACKS. LOAD 299 JTS ON RACKS & TALLY.
12:00	3.00	15:00	RUTB	Run Tubing	P/U 4-3/4 BIT & POBS. RIH TO KILL PLUG @ 7601' P/U NEW 2-7/8 L-80 TBG.
15:00	3.00	18:00	GOP	General Operations	R/U POWER SWIVEL. FILL HOLE & TEST BOPE TO 2000 PSI, HELD.  D/O CBP @ 7601'. CFP- 600 PSI ON 30/64 CHOKE.  SWIVEL IN HOLE, TAG SAND @ 8040'. C/O SAND & D/O CBP @ 8051'. CFP- 800 ON 30/64 CHOKE. R/D SWIVEL. TURN WELL OVER TO FLOWBACK. SDFN.



Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
18:00	12.00	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE. CREW TRAVEL.  FUEL REPORT STONE DIESEL 70 GAL. DELSCO DIESEL 20 GAL. BUNNING TRUCKING DIESEL 200 GAL. RC CONSULTING 15 GAL.	

**FD 05-31-2-2 4/20/2014 06:00 - 4/21/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-54066	Utah	Uintah	Fort Duchesne	PRODUCING	1,243.0	Drilling & Completion

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.	
07:00	4.00	11:00	DOPG	Drill Out Plugs	CFP 300 ON 24/64 CHOKE. RIH F/ 8081 W/ 4-3/4 BIT, TAG SAND @ 8326'. R/U SWIVEL. BREAK CIRC. C/O SAND & D/O CBP @ 8354'. FCP- 600 ON 26/64 CHOKE.  SWIVEL IN HOLE. TAG SAND @ 8614'. C/O SAND & D/O CBP @ 8692'. FCP- 900 ON 26/64 CHOKE.  SWIVEL IN HOLE. TAG SAND @ 8966'. C/O SAND TO F/C @ 9125'. D/O F/C. C/O CMT TO 9197' PBDT. CIRC WELL CLEAN. R/D SWIVEL.	
11:00	1.50	12:30	PULT	Pull Tubing	PULL ABOVE PERFS L/D 2-7/8 TBG TO 7583' & LAND TBG. 238 JTS TOTAL IN HOLE.	
12:30	1.50	14:00	BOPI	Install BOP's	R/D FLOOR. N/D BOPE. N/U WELLHEAD. DROP BALL DOWN TBG & PUMPED BIT OFF @ 3400 PSI. R/U TBG TO SALES LINE. TURN OVER TO FLOWBACK. SICP- 600, FTP -500 ON 17/64 CHOKE. SDFN.	
14:00	1.00	15:00	SRIG	Rig Up/Down	R/D RIG & EQUIPMENT. SDFN.	
15:00	15.00	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE. CREW TRAVEL..  FUEL REPORT STONE DIESEL 100 GAL. DELSCO DIESEL 20 GAL. A & J DIESEL 20. RC CONSULTING 15 GAL.	

**FD 05-31-2-2 4/28/2014 06:00 - 4/29/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-54066	Utah	Uintah	Fort Duchesne	PRODUCING	1,243.0	Drilling & Completion

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM.	
07:00	2.00	09:00	RMOV	Rig Move	ROAD RIG FROM VERNAL YARD TO LOCATION.	
09:00	1.00	10:00	SRIG	Rig Up/Down	SLIDE ROTO OUT. SPOT AND RUSU. PUMPED 250 BBLS HOT WTR DOWN TBG.	
10:00	1.00	11:00	BOPI	Install BOP's	BLEED OFF WELL. ND WH. NU 7" 5K BOP. RU FLOOR. RU TBG EQUIP.	
11:00	3.00	14:00	PULT	Pull Tubing	PULL AND LD HANGER. POOH AS LD 40-JTS, CONT POOH W/ 191-JTS, XN, 1-JT AND POBS HALF.	
14:00	1.50	15:30	RUTB	Run Tubing	MU PROD BHA AND RIH W/ TBG.  TBG DETAIL KB 13.00 HANGER .85 STRETCH 2.10 185-JTS 2-7/8" 5881.15 5-1/2" 8 RD TAC 2.37 2-JTS 2-7/8" 63.43 2.25" TBG PMP 31.20 TBG SUB 4.37 3-1/2" DESANDER 17.10 5-JTS 2-7/8" 158.32 BULL PLUG .60  TAC AT 5897.10, PSN AT 5994.10, EOT AT 6174.49	

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
15:30	1.00	16:30	BOPR	Remove BOP's	RD FLOOR. ND BOP. NU WH. SET 5-1/2" 8 RD TAC AND LAND HANGER IN 20K TENSION.
16:30	1.00	17:30	GOP	General Operations	SPOT AND PREP RODS FOR AM. SDFN.
17:30	12.50	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE.

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT  FORM 8  
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:  
**Fee**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:  
**FD 5-31-2-2**

9. API NUMBER:  
**4304754066**

10 FIELD AND POOL, OR WILDCAT  
**Wildcat**

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:  
**SWNW 31 2S 2E U**

12. COUNTY **Uintah** 13. STATE **UTAH**

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  OTHER \_\_\_\_\_  
b. TYPE OF WORK: NEW WELL  HORIZ. LATS.  DEEP-EN  RE-ENTRY  DIFF. RESVR.  OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
**Bill Barrett Corporation**

3. ADDRESS OF OPERATOR: **1099 18th St Ste 2300** CITY **Denver** STATE **CO** ZIP **80202** PHONE NUMBER: **(303) 293-9100**

4. LOCATION OF WELL (FOOTAGES)  
AT SURFACE: **1980 FNL 680 FWL**  
AT TOP PRODUCING INTERVAL REPORTED BELOW: **2007 FNL 692 FWL**  
AT TOTAL DEPTH: **2063 FNL 710 FWL**

14. DATE SPUNDED: **1/25/2014** 15. DATE T.D. REACHED: **3/5/2014** 16. DATE COMPLETED: **4/20/2014** ABANDONED  READY TO PRODUCE  17. ELEVATIONS (DF, RKB, RT, GL): **5016 GL**

18. TOTAL DEPTH: MD **9,230** TVD **9,228** 19. PLUG BACK T.D.: MD **9,126** TVD **9,124** 20. IF MULTIPLE COMPLETIONS, HOW MANY? \* 21. DEPTH BRIDGE MD \_\_\_\_\_ PLUG SET: TVD \_\_\_\_\_

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)  
**TRIPLE COMBO/CBL/MUD**

23. WAS WELL CORED? NO  YES  (Submit analysis)  
WAS DST RUN? NO  YES  (Submit report)  
DIRECTIONAL SURVEY? NO  YES  (Submit copy)

**24. CASING AND LINER RECORD (Report all strings set in well)**

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
24	16 Conq	65#	0	80	80			0	
12 1/4	8 5/8 J-55	24#	0	1,243	1,223	Lead 150 Tail 560	102 115	0	
7 7/8	5 1/2 I-80	17#	0	9,230	9,215	Lead 545 Tail 730	227 188	3464	

**25. TUBING RECORD**

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8	6,175							

**26. PRODUCING INTERVALS**

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) Green River	7,701	8,989		
(B)				
(C)				
(D)				

**27. PERFORATION RECORD**

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
7,701 8,989	.38	180	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

**28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.**

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7701-8989	Green River: See attached Stage 1-4

**29. ENCLOSED ATTACHMENTS:**

ELECTRICAL/MECHANICAL LOGS  GEOLOGIC REPORT  DST REPORT  DIRECTIONAL SURVEY  
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION  CORE ANALYSIS  OTHER: \_\_\_\_\_

**30. WELL STATUS:**

**POW**

## 31. INITIAL PRODUCTION

## INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 4/20/2014		TEST DATE: 4/30/2014		HOURS TESTED: 24		TEST PRODUCTION RATES: →		OIL - BBL: 193	GAS - MCF: 37	WATER - BBL: 349	PROD. METHOD: Flowing
CHOKE SIZE: 64/64	TBG. PRESS. 200	CSG. PRESS. 50	API GRAVITY 32.00	BTU - GAS 1	GAS/OIL RATIO 192	24 HR PRODUCTION RATES: →		OIL - BBL: 193	GAS - MCF: 37	WATER - BBL: 349	INTERVAL STATUS:

## INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →		OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →		OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

## INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →		OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →		OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

## INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →		OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →		OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

## 32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

Sold

## 33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				Green River	5,405
				Mahogany	6,581
				TGR3	7,680
				Douglas Creek	7,878
				Black Shale Facies	8,450
				Castle Peak	8,550
				Uteland Butte	8,765
				Wasatch	9,206
				TD	9,230

## 35. ADDITIONAL REMARKS (Include plugging procedure)

TOC calculated by CBL. Conductor cemented with grout. First gas sales 4/21/2014; first oil sales 5/2/2014

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Christina Hirtler TITLE Permit Analyst

SIGNATURE \_\_\_\_\_ DATE 5/14/2014

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

**5-31-2-2 FD Report Continued\***

<b>44. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)</b>				
<b>AMOUNT AND TYPE OF MATERIAL</b>				
<b><i>Stage</i></b>	<b><i>bbls Slurry</i></b>	<b><i>lbs Common White 100 Mesh Sand</i></b>	<b><i>lbs 20/40 Premium White</i></b>	<b><i>gal 15% HCl Acid</i></b>
1	2680	7100	140400	3904
2	2631	8200	150200	3407
3	2692	8200	150600	3405
4	2818	9900	159300	3405

\*Depth intervals for frac information same as perforation record intervals.



**Payzone Directional**  
End of Well Report



<b>Company:</b>	Bill Barrett Corporation	<b>Local Co-ordinate Reference:</b>	Well FD 5-31-2-2
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	FD 5-31-2-2 @ 5029.0usft (Capstar 328)
<b>Site:</b>	SECTION 31 T2S, R2E	<b>MD Reference:</b>	FD 5-31-2-2 @ 5029.0usft (Capstar 328)
<b>Well:</b>	FD 5-31-2-2	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	EDM 5000.1 Single User Db

<b>Project</b>	Fort Duchesne		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Utah Southern Zone		

<b>Site</b>	SECTION 31 T2S, R2E		
<b>Site Position:</b>		<b>Northing:</b>	11,161,342.96 usft
<b>From:</b>	Map	<b>Easting:</b>	2,110,454.25 usft
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "
		<b>Latitude:</b>	40° 16' 32.403 N
		<b>Longitude:</b>	109° 49' 0.873 W
		<b>Grid Convergence:</b>	1.03 °

<b>Well</b>	FD 5-31-2-2, SHL LAT: 40 16 03.03 LONG: -109 49 08.01			
<b>Well Position</b>	<b>+N/-S</b>	0.0 usft	<b>Northing:</b>	11,158,358.39 usft
	<b>+E/-W</b>	0.0 usft	<b>Easting:</b>	2,109,954.16 usft
<b>Position Uncertainty</b>		0.0 usft	<b>Wellhead Elevation:</b>	5,029.0 usft
			<b>Latitude:</b>	40° 16' 3.030 N
			<b>Longitude:</b>	109° 49' 8.010 W
			<b>Ground Level:</b>	5,016.0 usft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	2/21/2014	10.90	65.96	52,163

<b>Design</b>	Actual				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	160.19	

<b>Survey Program</b>	<b>Date</b>	3/6/2014		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
1,235.0	9,230.0	Survey #1 (Wellbore #1)	MWD	MWD v3:standard declination



## Payzone Directional

End of Well Report



<b>Company:</b>	Bill Barrett Corporation	<b>Local Co-ordinate Reference:</b>	Well FD 5-31-2-2
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	FD 5-31-2-2 @ 5029.0usft (Capstar 328)
<b>Site:</b>	SECTION 31 T2S, R2E	<b>MD Reference:</b>	FD 5-31-2-2 @ 5029.0usft (Capstar 328)
<b>Well:</b>	FD 5-31-2-2	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00		0.00
1,235.0	0.30	179.70	1,235.0	3.0	-3.2	0.0	0.02	0.02	0.00		0.00
1,319.0	0.30	124.10	1,319.0	3.4	-3.6	0.2	0.33	0.00			-66.19
1,404.0	0.49	97.00	1,404.0	3.8	-3.7	0.7	0.31	0.22			-31.88
1,488.0	0.80	77.40	1,488.0	4.0	-3.7	1.7	0.45	0.37			-23.33
1,572.0	1.00	60.60	1,572.0	4.0	-3.2	2.9	0.39	0.24			-20.00
1,656.0	0.70	60.50	1,656.0	3.8	-2.6	4.0	0.36	-0.36			-0.12
1,741.0	0.60	46.40	1,741.0	3.5	-2.0	4.7	0.22	-0.12			-16.59
1,825.0	0.70	24.10	1,825.0	2.9	-1.2	5.3	0.32	0.12			-26.55
1,909.0	0.80	352.00	1,908.9	2.0	-0.2	5.4	0.51	0.12			-38.21
1,993.0	0.70	349.10	1,992.9	0.9	0.9	5.2	0.13	-0.12			-3.45
2,078.0	0.50	358.40	2,077.9	0.1	1.8	5.1	0.26	-0.24			10.94
2,162.0	0.30	316.90	2,161.9	-0.5	2.3	5.0	0.40	-0.24			-49.40
2,246.0	0.70	337.40	2,245.9	-1.2	2.9	4.6	0.51	0.48			24.40
2,330.0	0.80	318.90	2,329.9	-2.3	3.9	4.0	0.31	0.12			-22.02
2,415.0	0.80	316.80	2,414.9	-3.4	4.7	3.2	0.03	0.00			-2.47
2,499.0	0.50	302.00	2,498.9	-4.2	5.4	2.5	0.41	-0.36			-17.62
2,583.0	0.60	326.30	2,582.9	-4.9	5.9	2.0	0.30	0.12			28.93
2,667.0	0.40	330.30	2,666.9	-5.6	6.5	1.6	0.24	-0.24			4.76
2,752.0	0.30	284.90	2,751.9	-6.0	6.9	1.2	0.34	-0.12			-53.41
2,836.0	1.02	349.21	2,835.9	-6.9	7.7	0.9	1.11	0.86			76.56
2,920.0	1.02	326.69	2,919.9	-8.4	9.0	0.3	0.47	0.00			-26.81
3,005.0	0.09	310.29	3,004.9	-9.2	9.7	-0.2	1.10	-1.09			-19.29
3,089.0	0.62	331.09	3,088.9	-9.7	10.1	-0.4	0.64	0.63			24.76
3,173.0	0.88	16.19	3,172.9	-10.6	11.1	-0.5	0.74	0.31			53.69
3,257.0	0.49	5.82	3,256.9	-11.5	12.1	-0.3	0.49	-0.46			-12.35
3,342.0	0.40	3.09	3,341.9	-12.1	12.8	-0.2	0.11	-0.11			-3.21



## Payzone Directional

End of Well Report



**Company:** Bill Barrett Corporation  
**Project:** Fort Duchesne  
**Site:** SECTION 31 T2S, R2E  
**Well:** FD 5-31-2-2  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well FD 5-31-2-2  
**TVD Reference:** FD 5-31-2-2 @ 5029.0usft (Capstar 328)  
**MD Reference:** FD 5-31-2-2 @ 5029.0usft (Capstar 328)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 5000.1 Single User Db

## Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
3,426.0	0.88	356.92	3,425.9	-13.0	13.7	-0.2	0.58	0.57	-7.35
3,510.0	1.19	1.90	3,509.8	-14.4	15.2	-0.2	0.38	0.37	5.93
3,594.0	1.19	2.78	3,593.8	-16.0	17.0	-0.2	0.02	0.00	1.05
3,679.0	1.02	349.12	3,678.8	-17.6	18.6	-0.3	0.37	-0.20	-16.07
3,763.0	0.80	6.92	3,762.8	-18.8	19.9	-0.3	0.42	-0.26	21.19
3,847.0	0.49	3.79	3,846.8	-19.7	20.9	-0.2	0.37	-0.37	-3.73
3,931.0	0.40	359.21	3,930.8	-20.3	21.5	-0.2	0.12	-0.11	-5.45
4,016.0	0.09	344.31	4,015.8	-20.7	21.9	-0.2	0.37	-0.36	-17.53
4,100.0	0.31	324.62	4,099.8	-20.9	22.1	-0.4	0.27	0.26	-23.44
4,184.0	0.08	0.40	4,183.8	-21.2	22.4	-0.5	0.30	-0.27	42.60
4,268.0	0.80	8.11	4,267.8	-21.8	23.0	-0.4	0.86	0.86	9.18
4,353.0	0.80	27.29	4,352.8	-22.7	24.1	-0.1	0.31	0.00	22.56
4,437.0	0.62	30.60	4,436.8	-23.4	25.0	0.4	0.22	-0.21	3.94
4,521.0	0.50	38.60	4,520.8	-23.9	25.7	0.9	0.17	-0.14	9.52
4,606.0	0.30	57.60	4,605.8	-24.1	26.1	1.3	0.28	-0.24	22.35
4,690.0	0.50	61.70	4,689.8	-24.2	26.4	1.8	0.24	0.24	4.88
4,774.0	0.40	121.40	4,773.8	-24.1	26.4	2.4	0.54	-0.12	71.07
4,858.0	0.49	144.40	4,857.8	-23.5	26.0	2.8	0.24	0.11	27.38
4,943.0	0.80	173.90	4,942.8	-22.6	25.1	3.1	0.52	0.36	34.71
5,027.0	0.40	121.82	5,026.7	-21.8	24.4	3.4	0.76	-0.48	-62.00
5,111.0	0.31	0.58	5,110.7	-21.7	24.4	3.7	0.74	-0.11	-144.33
5,195.0	0.71	184.61	5,194.7	-21.5	24.1	3.6	1.21	0.48	-209.49
5,279.0	0.40	239.21	5,278.7	-20.9	23.5	3.3	0.69	-0.37	65.00
5,364.0	0.80	211.58	5,363.7	-20.5	22.8	2.8	0.57	0.47	-32.51
5,448.0	1.02	195.50	5,447.7	-19.5	21.6	2.3	0.40	0.26	-19.14
5,532.0	0.49	165.20	5,531.7	-18.6	20.5	2.2	0.77	-0.63	-36.07
5,617.0	1.00	192.70	5,616.7	-17.6	19.5	2.1	0.72	0.60	32.35



## Payzone Directional

End of Well Report



**Company:** Bill Barrett Corporation  
**Project:** Fort Duchesne  
**Site:** SECTION 31 T2S, R2E  
**Well:** FD 5-31-2-2  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well FD 5-31-2-2  
**TVD Reference:** FD 5-31-2-2 @ 5029.0usft (Capstar 328)  
**MD Reference:** FD 5-31-2-2 @ 5029.0usft (Capstar 328)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 5000.1 Single User Db

## Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
5,701.0	1.00	192.10	5,700.7	-16.3	18.0	1.8	0.01	0.00	-0.71
5,785.0	0.80	197.08	5,784.7	-15.3	16.7	1.5	0.26	-0.24	5.93
5,869.0	1.50	198.72	5,868.7	-13.9	15.1	0.9	0.83	0.83	1.95
5,954.0	2.21	209.80	5,953.6	-12.0	12.7	-0.2	0.93	0.84	13.04
6,038.0	1.90	219.70	6,037.6	-10.2	10.2	-1.9	0.56	-0.37	11.79
6,122.0	1.99	208.30	6,121.5	-8.6	7.8	-3.5	0.47	0.11	-13.57
6,206.0	2.30	187.08	6,205.5	-6.1	4.9	-4.4	1.01	0.37	-25.26
6,291.0	2.30	180.69	6,290.4	-3.0	1.5	-4.6	0.30	0.00	-7.52
6,375.0	1.99	178.49	6,374.3	0.0	-1.7	-4.6	0.38	-0.37	-2.62
6,459.0	1.50	184.60	6,458.3	2.4	-4.2	-4.7	0.62	-0.58	7.27
6,543.0	1.40	151.60	6,542.3	4.4	-6.2	-4.3	0.99	-0.12	-39.29
6,628.0	1.00	108.20	6,627.3	5.9	-7.4	-3.1	1.13	-0.47	-51.06
6,709.0	1.50	93.00	6,708.2	6.7	-7.6	-1.3	0.74	0.62	-18.77
6,793.0	1.60	62.70	6,792.2	7.0	-7.2	0.8	0.97	0.12	-36.07
6,878.0	1.41	85.70	6,877.2	7.1	-6.5	2.9	0.74	-0.22	27.06
6,962.0	1.30	106.60	6,961.2	8.0	-6.7	4.8	0.60	-0.13	24.88
7,047.0	1.00	127.00	7,046.1	9.2	-7.5	6.3	0.59	-0.35	24.00
7,131.0	1.28	140.90	7,130.1	10.7	-8.6	7.5	0.47	0.33	16.55
7,215.0	1.28	156.01	7,214.1	12.5	-10.2	8.5	0.40	0.00	17.99
7,299.0	1.50	155.09	7,298.1	14.5	-12.1	9.3	0.26	0.26	-1.10
7,384.0	1.59	171.70	7,383.0	16.8	-14.2	10.0	0.54	0.11	19.54
7,468.0	2.10	175.60	7,467.0	19.4	-16.9	10.3	0.62	0.61	4.64
7,552.0	2.30	175.00	7,550.9	22.5	-20.1	10.5	0.24	0.24	-0.71
7,637.0	1.99	167.80	7,635.9	25.6	-23.3	11.0	0.48	-0.36	-8.47
7,721.0	2.70	166.20	7,719.8	29.0	-26.6	11.8	0.85	0.85	-1.90
7,805.0	2.20	156.70	7,803.7	32.6	-30.0	12.9	0.76	-0.60	-11.31
7,889.0	2.52	152.31	7,887.7	36.1	-33.1	14.4	0.44	0.38	-5.23



## Payzone Directional

End of Well Report



**Company:** Bill Barrett Corporation  
**Project:** Fort Duchesne  
**Site:** SECTION 31 T2S, R2E  
**Well:** FD 5-31-2-2  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well FD 5-31-2-2  
**TVD Reference:** FD 5-31-2-2 @ 5029.0usft (Capstar 328)  
**MD Reference:** FD 5-31-2-2 @ 5029.0usft (Capstar 328)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 5000.1 Single User Db

## Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
7,974.0	2.21	172.10	7,972.6	39.5	-36.4	15.5	1.02	-0.36	23.28
8,058.0	2.50	171.70	8,056.5	42.9	-39.8	16.0	0.35	0.35	-0.48
8,142.0	1.90	174.20	8,140.5	46.0	-43.0	16.4	0.72	-0.71	2.98
8,227.0	1.99	165.80	8,225.4	48.9	-45.9	16.9	0.35	0.11	-9.88
8,311.0	1.81	151.90	8,309.4	51.6	-48.5	17.9	0.59	-0.21	-16.55
8,395.0	1.99	151.70	8,393.3	54.4	-50.9	19.2	0.21	0.21	-0.24
8,479.0	1.90	165.62	8,477.3	57.2	-53.5	20.2	0.57	-0.11	16.57
8,564.0	2.21	157.90	8,562.2	60.3	-56.4	21.2	0.49	0.36	-9.08
8,648.0	2.30	156.70	8,646.2	63.6	-59.5	22.4	0.12	0.11	-1.43
8,732.0	2.39	169.40	8,730.1	67.0	-62.7	23.4	0.63	0.11	15.12
8,817.0	2.52	162.70	8,815.0	70.6	-66.3	24.3	0.37	0.15	-7.88
8,901.0	2.30	150.30	8,898.9	74.1	-69.5	25.7	0.67	-0.26	-14.76
8,985.0	2.78	166.60	8,982.8	77.8	-72.9	27.0	1.03	0.57	19.40
9,070.0	2.60	163.10	9,067.8	81.8	-76.8	28.0	0.29	-0.21	-4.12
9,154.0	2.21	162.40	9,151.7	85.3	-80.2	29.1	0.47	-0.46	-0.83
9,196.0	2.12	165.00	9,193.7	86.9	-81.7	29.5	0.32	-0.21	6.19
9,230.0	2.12	165.00	9,227.6	88.1	-82.9	29.9	0.00	0.00	0.00

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

Sundry Number: 51313 API Well Number: 43047540660000

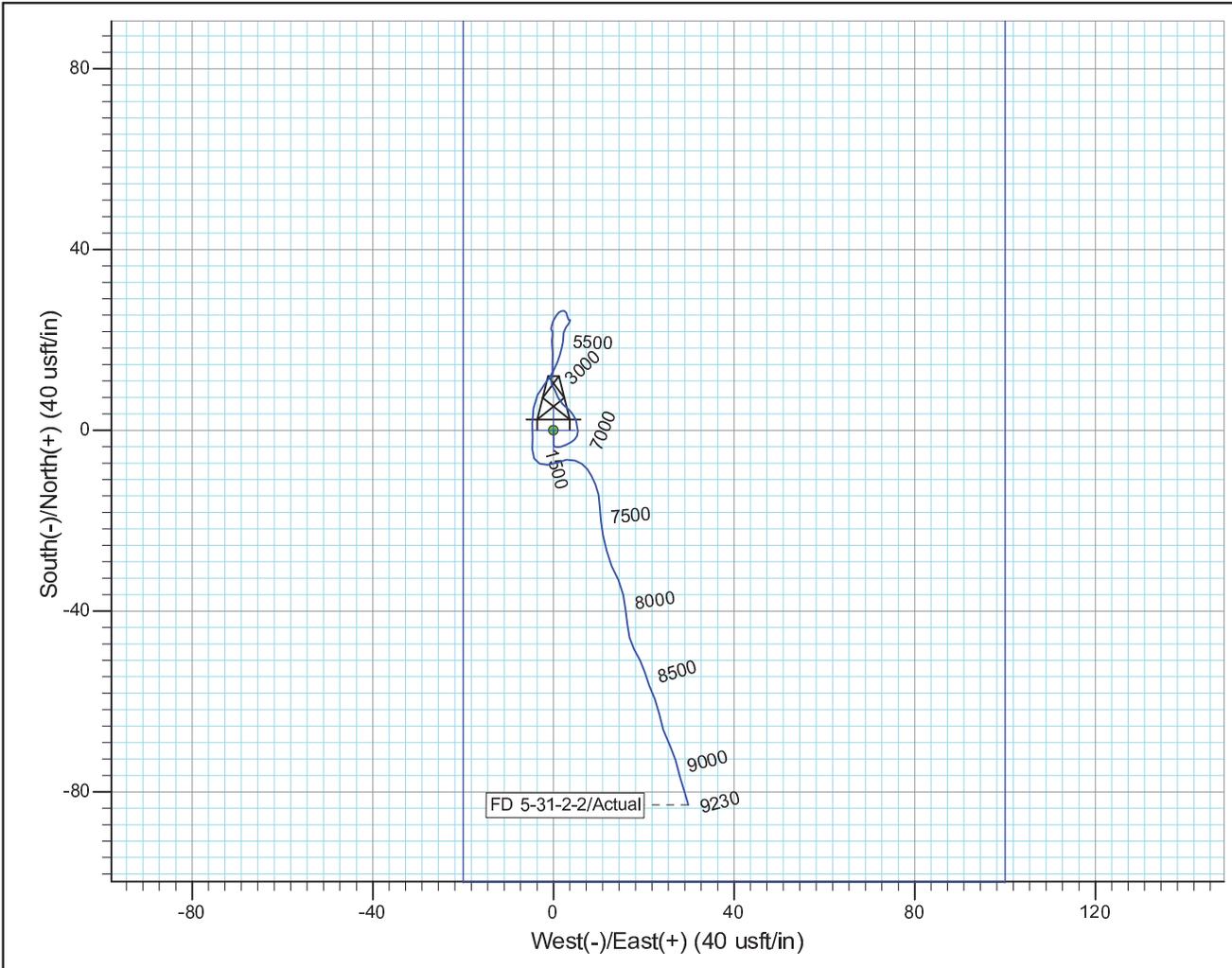
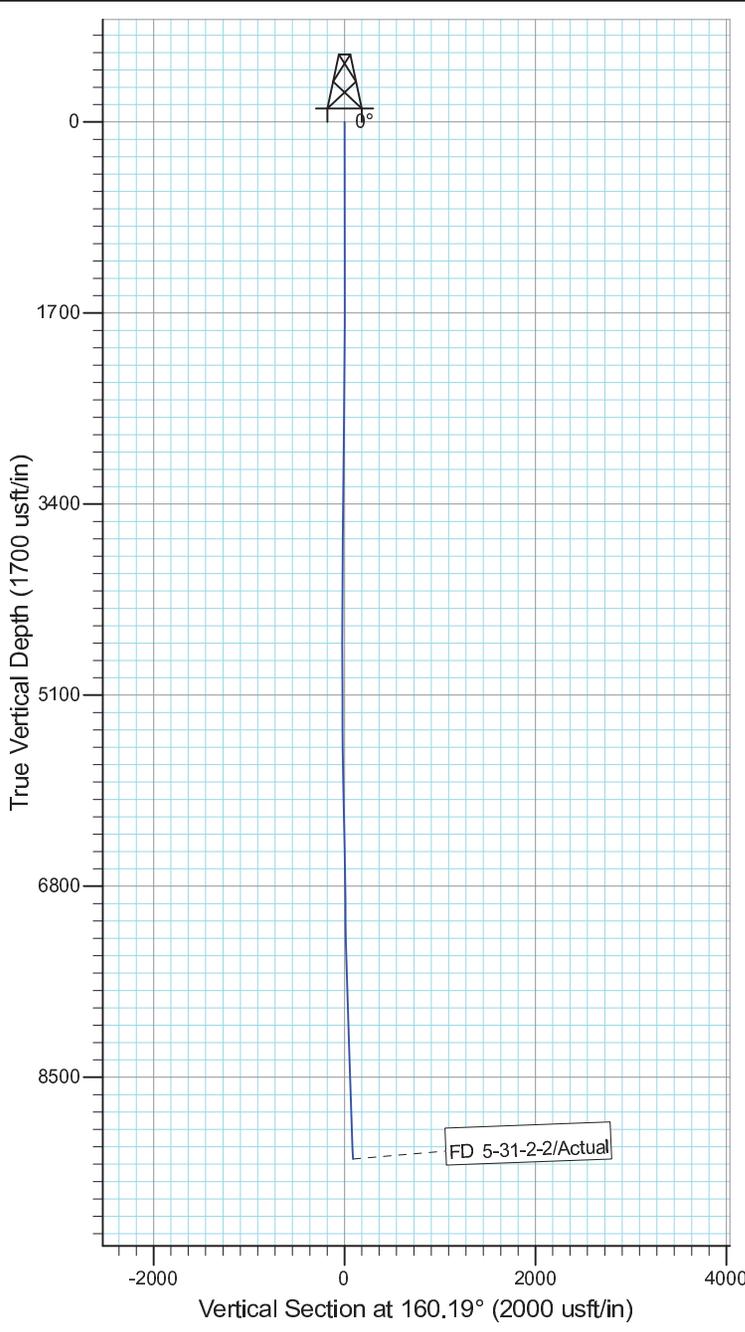


Project: Fort Duchesne  
Site: SECTION 31 T2S, R2E  
Well: FD 5-31-2-2  
Wellbore: Wellbore #1  
Design: Actual



Azimuths to True North  
Magnetic North: 10.90°

Magnetic Field  
Strength: 52162.7snT  
Dip Angle: 65.96°  
Date: 2/21/2014  
Model: IGRF2010



Design: Actual (FD 5-31-2-2/Wellbore #1)

Created By: *Matthew Linton* Date: 13:13, March 06 2014

THIS SURVEY IS CORRECT TO THE BEST OF MY KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> fee
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>8. WELL NAME and NUMBER:</b> FD 5-31-2-2
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. API NUMBER:</b> 43047540660000
<b>PHONE NUMBER:</b> 303 312-8134 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MOFFAT CANAL
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1980 FNL 0680 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 31 Township: 02.0S Range: 02.0E Meridian: U		<b>COUNTY:</b> UINTAH
		<b>STATE:</b> UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 6/19/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="INTERIM REC COMPLETED"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

INTERIM RECLAMATION WAS COMPLETED ON 6/19/2014 AND THE PIT  
WAS CLOSED ON 4/6/2014

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
January 09, 2015**

<b>NAME (PLEASE PRINT)</b> Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 1/6/2015	